REMEDIAL INVESTIGATION WORK PLAN

for

130 SAINT FELIX STREET SITE
130 Saint Felix Street
Brooklyn, New York
NYSDEC BCP No. C224306

Prepared for:

130 St. Felix Street LLC
c/o Gotham Organization, LLC
432 Park Avenue South, 2nd Floor
New York, New York 10016

Prepared by:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054

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Langan Project No. 100842301

LANGAN

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LIST OF ACRONYMS

Acronym	Definition
NYCRR	6 New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
DER	Division of Environmental Remediation
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
ECL	Environmental Conservation Law
NYSDOH	New York State Department of Health
NYCOASIS	New York City Open Accessible Space Information System
NYCT	New York City Transit
USGS	United States Geological Survey
NAVD88	North American Vertical Datum of 1988
UST	Underground Storage Tank
SVOC	Semi-Volatile Organic Compound
RRSCOs	Restricted Residential Soil Cleanup Objectives
PGWSCOs	Protection of Groundwater Soil Cleanup Objectives
GWQSs	Groundwater Quality Standards
ESA	Environmental Site Assessment
RECs	Recognized Environmental Concerns
LNAPL	Light Non-Aqueous Phase Liquid
PID	Photoionization Detector
UUSCOs	Unrestricted Use Soil Cleanup Objectives
PCBs	Polychlorinated Biphenyls
VOCs	Volatile Organic Compounds
CVOCs	Chlorinated Volatile Organic Compounds
PCE	Tetrachloroethene
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
GPR	Ground Penetrating Radar
EM	Electromagnetic

Acronym	Definition
AOC	Area of Concern
RIWP	Remedial Investigation Work Plan
TAL	Target Analyte List
PFAS	Perfluoroalkyl Substances
NYSDOH	New York State Department of Health
USEPA	United Stated Environmental Protection Agency
HASP	Health and Safety Plan
QAPP	Quality Assurance Project Plan
CAMP	Community Air Monitoring Plan
TOV	Total Organic Vapor
ELAP	Environmental Laboratory Approval Program
PVC	Polyvinyl Chloride

CERTIFICATION

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

Christopher McMahon, CHMM

1.0 INTRODUCTION

This Remedial Investigation Work Plan (RIWP) was prepared on behalf of130 St. Felix Street LLC c/o Gotham Organization, LLC (the Volunteer) for 130 Saint Felix Street, New York City Tax Block 2111, Lot 40, in the Fort Greene neighborhood of Brooklyn, New York (hereinafter referred to as "the Site").

On 7 July 2020, the Volunteer and the New York State Department of Environmental Conservation (NYSDEC) executed a Brownfield Cleanup Agreement (BCA) C224306-05-20 to investigate and remediate the approximately 12,519-square foot site. Brownfield Cleanup Program (BCP) Site No. C224306 was assigned to the Site. The following work scope has been developed to meet the investigation requirements of the NYSDEC Brownfield Cleanup Program in accordance with the requirements of Environmental Conservation Law (ECL) Article 27-1415(2).

This RIWP was developed in accordance with the process and requirements identified in the NYSDEC Division of Environmental Remediation (DER)-10 *Technical Guidance for Site Investigation and Remediation* (May 2010) and the New York State Department of Health (NYSDOH) "Guidance for Evaluating Soil Vapor Intrusion in the State of New York, with updates"(October 2006).

2.0 SITE BACKGROUND

2.1 Site Description

The approximately 12,519-square foot (0.288 acre) Site is located at 130 Saint Felix Street in the Fort Greene neighborhood of Brooklyn, New York, and is identified as Block 2111 and Lot 40 on the New York City (NYC) Tax Map. The Site is currently an at-grade asphalt paved parking lot and has been used as a parking lot since at least 1950. The Site is bound to the north by a four-story building occupied by the Brooklyn Music School and a seven-story building occupied by the Brooklyn Academy of Music; Saint Felix Street followed by five 2.75- to three-story residential buildings to the east; the 41-story mixed-use residential/commercial Williamsburgh Savings Bank Tower (1 Hanson Place) and a three-story church building to the south; and Ashland Place followed by a 31-story mixed-use residential/commercial building to the west. The Site is located within a commercial zoning district (C6-1) and is currently designated for garage/gas station use (G6) by the New York City Department of Finance. According to the New York City Department of City Planning zoning map dated 10 December 2019, the Site is located within the Special Downtown Brooklyn District. The Special Downtown Brooklyn District was created to establish special height and setback regulations and urban design guidelines to promote and support the

continued growth of Downtown Brooklyn as a unique mixed-use area. The Volunteer is applying for a zoning map amendment to change from a C6-1 district to a C6-6 district on the western portion of the Site and from a C6-1 district to a C6-4 district on the eastern portion of the Site to allow for a mixed-use residential/institutional building.

2.2 Surrounding Property Land Use

According to records maintained online by New York City Open Accessible Space Information System (NYCOASIS) and aerial/street-view observations provided by Google Maps, surrounding properties include two Brooklyn Academy of Music buildings, five residential buildings, a 41-story mixed-use residential/commercial building, a three-story church building, and a 31-story mixed-use residential/commercial building. The following is a summary of surrounding property usage:

Direction	Adjacent Properties			Surrounding Properties
	Block No.	Lot No.	Description	
North	2111	11	BAM Fisher Performing Arts Theatre (321 Ashland Place)	Brooklyn Academy of Music Performing Arts Theatre, Ashland Place followed by a residential/commercial building, and Saint Felix Street followed by a school and residential buildings
		37	Brooklyn Music School (126 Saint Felix Street)	
East	2112	9	Residential Building (131 Saint Felix Street)	Residential buildings
		10	Residential Building (129 Saint Felix Street)	
		11	Residential Building (127 Saint Felix Street)	
		12	Residential Building (125 Saint Felix Street)	
		13	Residential Building (123 Saint Felix Street)	
South	2111	7501	Williamsburgh Savings Bank Tower Mixed-Use Residential/Commercial Building (1 Hanson Place)	Hanson Place followed by Long Island Rail Road Atlantic Terminal and a commercial building, Ashland Place followed by a residential/commercial building, and Saint Felix Street followed by residential buildings

		45	Hanson Place Central United Methodist Church (144 Saint Felix Street)	
West	2110	3	Mixed-use Residential/ Commercial Building (286 Ashland Place)	Flatbush Avenue followed by commercial/office buildings and an industrial/manufacturing building

Public infrastructure (storm drains, sewers, and underground utility lines) exists within the streets to the east and west of the Site. New York City Transit (NYCT) subway tunnels are located beneath Lafayette Avenue to the north, Saint Felix Street to the east, and Ashland Place, Fourth Avenue, and Flatbush Avenue to the west and south of the Site. Sensitive receptors (as defined in DER-10) located within a half mile of the Site include:

Number	Name (Approximate distance from site)	Address
1	Hanson Place Elementary School (approximately 200 feet northeast of the Site)	38 Lafayette Avenue Brooklyn, NY 11217
2	Hanson Place Child Development Center, Inc. (approximately 500 feet east of the Site)	55 Hanson Place Brooklyn, NY 11217
3	Metropolitan Corp. Academy (approximately 800 feet northwest of the Site)	362 Schermerhorn Street Brooklyn, NY 11217
4	Pacific Library (approximately 900 feet south of the Site)	25 Fourth Avenue Brooklyn, NY 11217
5	Brooklyn High School For The Arts (approximately 1,000 feet southwest of the Site)	345 Dean Street Brooklyn, NY 11217
6	Acorn High School For Social Justice (approximately 1,100 feet southwest of the Site)	500 Pacific Street Brooklyn, NY 11217
7	Brooklyn Technical High School (approximately 1,200 feet north of the Site)	29 Fort Greene Place Brooklyn, NY 11217
8	Northside Center for Child Development, Inc. (approximately 1,200 feet northwest of the Site)	44-60 Rockwell Place Brooklyn, NY 11217
9	Hanover Place Child Care, LLC/Milestone School For Child Development, (approximately 1,500feet northwest of the Site)	15 Hanover Place Brooklyn, NY 11201
10	P369K: The Coy L. Cox School (approximately 1,500 feet northwest of the Site)	383 State Street Brooklyn, NY 11217
11	School for the Science Language & Art International School (approximately 1,500 feet northwest of the Site)	9 Hanover Place Brooklyn, NY 11201

Number	Name (Approximate distance from site)	Address
12	Public School 038 The Pacific/Virtual Y – YMCA of Greater NY (approximately 1,500 feet southwest of the Site)	450 Pacific Street Brooklyn, NY 11217
13	Raices Gowanus Senior Center/Strong Place for Hope Day Care Center and Pre-K (approximately 1,600 feet west of the Site)	460 Atlantic Avenue Brooklyn, NY 11217
14	Kids Run Around Daycare (approximately 1,700 feet southwest of the Site)	615 Warren Street Brooklyn, NY 11217
15	The Brooklyn Hospital Center – Downtown Campus (approximately 1,800 feet north of the Site)	121 Dekalb Avenue Brooklyn, NY 11217
16	Junior High School/Old 294 Edmonds Center/Long Island University After School Program (approximately 1,900 feet northeast of the Site)	300 Adelphi Street Brooklyn, NY 11205
17	Wyckoff Gardens Neighborhood Senior Center/Community Center After School Program/ Wyckoff Homes Adult and Continuing Education (approximately 2,000 feet southwest of the Site)	280 Wyckoff Street Brooklyn, NY 11217
18	PAL/World of Little People Head Start (approximately 2,100 feet southwest of the Site)	565 Baltic Street Brooklyn, NY 11217
19	Park Slope Christian Academy (approximately 2,100 feet south of the Site)	98 5th Avenue Brooklyn, NY 11217
20	Luria Academy Day Care Center (approximately 2,100 feet southeast of the Site)	535 Dean Street Brooklyn, NY 11217
21	Atlantic Terminal Community Center After School Program (approximately 2,300 feet southeast of the Site)	501 Carlton Avenue Brooklyn, NY 11238
22	Public School 133 William A. Butler/OST – University Settlement Society of NY After School Program (approximately 2,300 feet southwest of the Site)	375 Butler Street Brooklyn, NY 11217
23	Long Island University- Brooklyn Campus/WIA In School Youth After School Program (approximately 2,400 feet northwest of the Site)	1 University Plaza Brooklyn, NY 11201
24	Public School 020 Clinton Hill/YMCA of Greater NY After School Program (approximately 2,600 feet northeast of the Site)	225 Adelphi Street Brooklyn, NY 11205
25	Middle School 266 Park Place/21st Century – Benjamin Banneker Community Development Center After School Program (approximately 2,600 feet south of the Site)	64 Park Place Brooklyn, NY 11217
26	Eladia's Day Care Center (approximately 2,600 feet south of the Site)	266 Flatbush Avenue Brooklyn, NY 11217

2.3 Site Physical Conditions

2.3.1 Topography

According to the United States Geological Survey (USGS) Brooklyn Quadrangle 7.5-minute Series Topographic Map, the existing site grade is approximately elevation (el) 45 North American Vertical Datum of 1988 (NAVD88). General topography in the vicinity of the site slopes northeast to southwest.

2.3.2 Geology

Based on observations made during Langan's May 2015 environmental Subsurface Investigation, subsurface conditions at the Site consist of historic fill generally consisting of fine to coarse sand with varying proportions of silt and gravel and miscellaneous debris, including brick, concrete, slag, coal, tile, and glass to a depth of approximately 9.5-feet below grade. The fill is underlain by a native brown medium to fine sand unit with varying amounts of gravel and silt. A thin band of fine silt was observed in some areas below this sand layer. A dense, fine to coarse sand with varying amounts of fine to coarse gravel was encountered below the silt.

According to the USGS Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York, and parts of Bergen and Hudson Counties, New Jersey, by Charles A. Baskerville dated 1994, the underlying bedrock formation in this area is the Hartland Formation, which is typically encountered in the area of the Subject Property at depths greater than 100 feet. The Harland Formation consists of gray schist with quartz, biotite, and muscovite. Based on geotechnical investigations conducted by Langan within the area, the depth to bedrock is greater than 90 feet bgs. Competent bedrock was not encountered in soil borings installed as part of the 2015 Subsurface Investigation.

2.3.3 Hydrogeology

Groundwater was encountered at approximately 42 feet bgs in one monitoring well installed within the central portion of the Site during Langan's May 2015 investigation. Based on area topography, observed water level measurements, and the proximity of the Site to the Gowanus Canal, groundwater is inferred to flow to the southwest towards the Gowanus Canal. Groundwater in this part of New York City is not used as a potable (drinking) water source. The potable water supply is provided to the Site by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

2.4 Proposed Development Plan

The Site is proposed to be developed with a 167,000 gross square foot, mixed-use for sale condominium with a 30% affordable component building on top of a 20,000 gross square foot community facility space to be purchased and occupied by the Brooklyn Music School. The Volunteer has commenced a rezoning action to change from a C6-1 district to a C6-6 district on the western portion of the Site and from a C6-1 district to a C6-4 district on the eastern portion of the Site in order to accommodate the proposed project. The proposed building will contain a partial cellar on the eastern portion of the site. Based on the most recent proposed plans, the partial cellar and first floor will occupy approximately 9,480-square-feet and 10,770-square-feet, respectively, of the approximately 12,519-square-foot property. The planned redevelopment excavation will extend down to approximately 20 feet bgs. Remediation of the Site will be completed in accordance with the forthcoming Remedial Action Work Plan (RAWP) subsequent to the Remedial Investigation (RI).

2.5 Environmental History

Previous environmental assessments and investigation reports prepared for the Site, and listed in the subsequent section, identify that the Site was an at-grade asphalt-paved parking lot since at least 1950 and may have contained underground storage tanks (USTs), which could have impacted soil, groundwater and/or soil vapor at the site. Historical operations at adjacent and surrounding properties include drug manufacturing, dry-cleaning and laundry, automobile sales, and a gasoline filling station. Dry cleaning facilities were identified located hydraulically upgradient and between 700- and 900-feet of the Site at 696 Fulton Street and 85 Lafayette Avenue. Hydraulically downgradient dry cleaning facilities were identified between 500- and 1,200-feet of the Site at 711 Fulton Street and 64 Fourth Avenue. Facility locations are provided on Figure 5.

Additionally, at the adjacent property to the south located at 1 Hanson Place, a tank failure resulted in a fuel oil release that was reported to NYSDEC in 2004 and was administratively closed in 2015.

The primary contaminants of concern identified as part of the previous environmental investigations are semi-volatile organic compounds (SVOCs) and metals commonly associated with petroleum impacts and historic fill and detected in soil at concentrations exceeding the applicable NYSDEC Restricted Residential Soil Cleanup Objectives (RRSCOs) for the proposed site use. Volatile organic compounds (VOCs) commonly associated with petroleum impacts have also been detected in soil at concentrations exceeding NYSDEC Protection of Groundwater SCOs (PGWSCOs). In groundwater, VOCs and metals have been detected at concentrations exceeding

NYSDEC Groundwater Quality Standards (GWQS). Additionally, petroleum-related VOCs and low levels of chlorinated VOCs were detected in soil vapor.

2.6 Previous Environmental Reports

Previous environmental correspondence, environmental site assessment reports, and environmental investigation reports have been prepared and reviewed and are summarized below:

- *Phase I Environmental Site Assessment,* prepared by Langan, dated May 2015
- *Subsurface Investigation Report,* prepared by Langan, dated June 2015
- *Geophysical Engineering Survey Report,* prepared by NOVA Geophysical Engineering (NOVA), dated 14 January 2020
- *BCP Application,* prepared by Knauf Shaw LLP, dated 4 February 2020
- *Brownfield Cleanup Agreement (BCA),* dated 7 July 2020

Phase I Environmental Site Assessment– Langan (2015)

Langan conducted a Phase I Environmental Site Assessment (ESA) dated May 2015 for the Site. At the time of the assessment, the Site was operated as a parking lot.

The ESA identified the following recognized environmental concerns (RECs):

- Historical site use due to the Department of Finance classification of the Site as a garage/gasoline station, and the potential for historical automobile repair or service activities. During site reconnaissance concrete patches and patched asphalt were observed, which may be indicative of USTs;
- Historical use of adjacent and surrounding properties, including drug manufacturing, dry-cleaning and laundry, automobile sales, and a gasoline filling station. In addition, the property adjacent to the south at 1 Hanson Place is associated with closed Spill No. 0402131, which was reported to NYSDEC in 2004 for a release of an unknown quantity of No. 2 fuel oil as the result of a tank failure. Fuel oil impacts were observed in soil from approximately 4 to 40 feet bgs. Petroleum free phase product was observed on groundwater, which was measured at approximately 43 feet bgs. A work plan for delineation and an exposure assessment was submitted to the NYSDEC in November 2013. The spill was administratively closed by NYSDEC on 15 April 2015; however, closure documentation was not available for review.

Langan recommended a subsurface investigation on the Site as a result of the above identified RECs.

Subsurface Investigation Report – Langan (2015)

Langan conducted a Subsurface Investigation for the Site in May 2015. Soil samples were collected from five soil borings from appropriate depths and locations to assess potential subsurface impacts associated with historical uses of the site as an automotive repair or service facility, and the historical use of adjacent and surrounding properties. The investigation included installation of five soil borings, one flush-mount groundwater monitoring well, three soil vapor sampling points, and collection of soil, groundwater, and soil vapor samples. The analytical results of this investigation are summarized in Tables 2 through 5 of the report that is provided in Appendix C and sample locations and analytical results are shown on Figures 2 through 5 of this work plan.

Evidence of petroleum impacts, including the presence of sheen, odor, light non-aqueous phase liquid (LNAPL) and elevated photoionization detector (PID) readings were not observed during the investigation, however, petroleum odors were observed from 7 to 8 feet bgs in soil boring EB12 in the eastern portion of the Site.

Analytical results of soil samples collected during the 2015 Subsurface Investigation were compared to the Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (6 NYCRR) NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs), PGWSCOs and RRSCOs. Analytes detected above RRSCOs are listed below. Groundwater sample results were compared to the 6 NYCRR Part 703.5 Class GA Groundwater Quality Standards and Division of Water Technical and Operational Guidance Series 1.1.1 (collectively referred to as GWQS) for Class GA water. Analytes detected above the regulatory criteria are summarized below. Soil vapor sample results were evaluated using the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State Soil Vapor/Indoor Air Decision Matrices dated October 2006 and updated May 2017. Laboratory analytical results are summarized below.

Soil:

- Elevated concentrations of total VOCs as measured with a photoionization detector (PID) were not detected in any soil borings. No visual or olfactory evidence of impacts were observed in any of the soil borings, with the exception of EB12, where odors were observed from 7 to 8 feet bgs.

- Herbicides, pesticides, and polychlorinated biphenyls (PCBs) were not detected in any of the soil samples.
- The VOCs naphthalene, p- & m-xylenes, and total xylenes were detected at concentrations above the PGWSCOs at only one soil boring location in the eastern portion of the Site. VOCs were not detected at concentrations above the RRSCOs in any other soil borings.
- Up to fourteen SVOCs, including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene, and pyrene were detected at concentrations exceeding the RRSCOs at three of the five soil boring locations.
- Metals, including arsenic, barium, lead, and mercury, were detected in soil samples at concentrations above the RRSCOs at three of the five soil boring locations.

Groundwater:

- PID readings at the monitoring well head were measured to be 0.0 ppm, and no visual or olfactory evidence of impacts were observed in groundwater.
- Groundwater was measured in the monitoring well at approximately 42 feet bgs.
- PCBs were not detected, and no SVOCs were detected in the groundwater monitoring well at concentrations exceeding the GWQS.
- The VOC chloroform was detected in groundwater at a concentration exceeding the GWQS.
- The dissolved metal sodium was detected in groundwater at concentrations exceeding the GWQS. Sodium is a naturally occurring element commonly found in groundwater.

Soil Vapor:

Soil vapor results identified elevated concentrations of petroleum-related VOCs including benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) at cumulative concentrations that ranged from 120.5 microgram per cubic meter ($\mu g/m^3$) to 204.5 $\mu g/m^3$. Benzene, toluene, ethylbenzene, and xylenes were detected in all three soil vapor samples.

The chlorinated VOCs (CVOCs) tetrachloroethene (PCE) and 1,1,1-trichloroethane, were detected in soil vapor samples collected at the site. PCE was detected in two soil vapor samples collected and 1,1,1-trichloroethane was detected in one soil vapor sample collected. PCE and 1,1,1-trichloroethane were detected at concentrations (3.04 $\mu g/m^3$–7.87$\mu g/m^3$ and 1.3 $\mu g/m^3$, respectively).

Based on the results of soil, groundwater, and soil vapor sampling completed during this Subsurface Investigation, impacts in soil, groundwater, and soil vapor are present in the subsurface.

Geophysical Engineering Survey Report – NOVA (2020)

On 10 January 2020, a geophysical investigation was completed by NOVA throughout the entire site to investigate the potential presence of USTs related to the potential historic use of the Site as a garage/gasoline filling station and the observed concrete patches and patched asphalt indicative of UST removal, which were identified as a REC during Langan's 2015 Phase I ESA. NOVA conducted the geophysical investigation using a Sensors and Software Noggin 250 MHz Ground Penetrating Radar (GPR) unit equipped with a shielded antenna and a Radio Detection RD7100 Electromagnetic (EM) utility locator.

The geophysical survey identified anomalies resembling potential subsurface utilities such as drainage pipes or conduits within the western portion of the Site. Two large geophysical anomalies resembling potential buried foundations were identified within the western and eastern portions of the Site. A suspected fill port was identified within the sidewalk adjacent to the Site along Saint Felix Street. Piping connecting to the suspected fill port was traced using the utility locator and was observed to enter the Site and the potential buried foundation in the eastern portion of the Site. NOVA was unable to identify the continuation of the piping further to the west once it entered the potential buried foundation. Besides piping below the sidewalk associated with the potential fill port, subsurface metallic anomalies were not identified during the geophysical survey and the presence of a UST was not confirmed.

BCP Application and BCA (2020)

The Volunteer submitted a BCP Application to NYSDEC for the Site on 4 February 2020 and the BCA was executed on 7 July 2020.

2.7 Areas of Concern (AOCs)

Based on the results of the previous environmental and geophysical reports, three Areas of Concern (AOCs) related to historical and surrounding site operations have been identified:

AOC-1: Historical Site Operations and Potential Historical Presence of USTs

Although review of Sanborn Fire Insurance Maps revealed that the Site has been operated as a parking lot dating back to at least 1950, the Department of Finance classification of the Site as a garage/gasoline station reveals the potential for historical automobile repair or service operations. Additionally, on-site concrete patches and patched asphalt observed during Langan's 2015 site reconnaissance and a UST fill port with piping leading into the Site detected during NOVA's 2020 geophysical survey indicate the potential presence or previous removal of on-site UST(s).

AOC-2: Historical Adjacent and Surrounding Site Operations

As discussed above, historical site operations at adjacent and surrounding properties including drug manufacturing, dry-cleaning and laundry, automobile sales, and a gasoline filling station have the potential to adversely impact the environmental conditions at the site. The property adjacent to the south of the Site at 1 Hanson Place is associated with the release of an unknown quantity of No. 2 fuel oil as the result of a tank failure that was reported to NYSDEC in 2004 and assigned Spill No. 0402131. Fuel oil impacts were observed in soil from 4 to 40 feet bgs, and petroleum free phase product was observed on groundwater, which was measured at about 43 feet bgs. A work plan for delineation and an exposure assessment was submitted to the NYSDEC in November 2013. The spill was administratively closed in 2015.

Results of Langan's 2015 Subsurface Investigation did not identify concentrations of chlorinated solvents above the monitoring and/or mitigation threshold according to the NYSDOH Soil Vapor Intrusion Matrices, therefore impacts from surrounding dry-cleaning facilities on subsurface conditions at the site were not identified. Impacts of petroleum-related VOCs, SVOCs, and/or metals were identified in soil, groundwater, and soil vapor samples, including some detected at concentrations exceeding the RRSCOs and/or PGWSCOs for soil and the GWQS for groundwater.

AOC-3: Historic Fill

Soil borings advanced throughout the site during Langan's 2015 Subsurface Investigation identified an approximately 9.5-foot thick layer of historic fill through the entire Site. PAHs and metals commonly associated with historic fill were detected at concentrations exceeding the Restricted Use SCOs for Restricted-Residential Use during the 2015 Subsurface Investigation.

3.0 SCOPE OF WORK

The objective of this RIWP is to investigate and characterize the nature and extent of the contamination at and/or emanating from the Site, in accordance with the requirements of NYSDEC Brownfield Cleanup Program and ECL Article 27-1415(2). The field investigation will include the tasks listed below to supplement the data and findings of previous investigations, and to characterize on-site historic fill and native soil, groundwater, and soil vapor conditions. The rationale for each sampling location and analytical parameters for each proposed sample are provided in Table 1 and the locations of the proposed borings, monitoring wells, and soil vapor points are shown on Figure 5.

Geophysical Survey

- As a full geophysical survey was completed at the Site in January 2020, the proposed scope for the additional survey will consist only of a private utility mark-out within the vicinity of proposed boring locations to identify if any subsurface anomalies exist and to assess for the presence of subsurface structures, piping, and underground storage tanks.

Soil Borings and Sampling

- A total of seven soil borings will be completed for the purposes of characterizing the nature and extent of contamination identified within the historic fill material, which is present to an approximate depth of 9.5-feet below existing grades at the site. Additionally, the soil investigation activities will also characterize the underlying native soil conditions to determine if any impacts exist within this material due to the presence of overlying contamination or historical site operations. All soil borings will be advanced to approximately five feet below the observed water table at locations where groundwater monitoring wells are proposed (LSB-1, LSB-2, and LSB-5 through LSB-7). The remaining borings (LSB-3 and LSB-4) will be advanced to a depth of five feet below the observed historic fill/native material interface, the depth of observed impacts, or a minimum depth of approximately 25-feet below existing grade.
- At LSB-1, LSB-2, and LSB-5 through LSB-7, discrete soil samples will be collected from the interval directly below ground surface (0 to 2 feet bgs) or from the two-foot interval where the greatest impacts are observed, the two-foot interval located beneath the interval exhibiting the greatest level of impacts or the historic fill/native material interface, and the two-foot interval corresponding to immediately below the groundwater table.

- At LSB-3 and LSB-4, discrete soil samples will be collected from the interval directly below ground surface (0 to 2 feet bgs) or from the two-foot interval where the greatest impacts are observed, the two-foot interval corresponding to immediately below the interval exhibiting the greatest level of impacts or the historic fill/native material interface, and from the anticipated maximum excavation depth for the proposed remediation (i.e., 20 to 22 feet bgs).
- Samples collected will be submitted for laboratory analysis for VOCs, SVOCs, target analyte list (TAL) metals, hexavalent chromium, PCBs, herbicides, and pesticides, perfluoroalkyl substances (PFAS) and 1,4-dioxane analysis in accordance with NYSDEC BCP requirements.
- If NAPL is observed, a fingerprint sample will be collected for petroleum identification analysis.

Test Pit Completion

- A total of seven test pits will be excavated to approximately 8 feet bgs at the three locations at the Site where asphalt patching was observed within the existing parking lot and at the location where the suspected fill line beneath the St. Felix Street sidewalk enters the Site. These include three areas in the central-western portion of the Site where the asphalt was observed to have been cut and patched during Langan's 2015 Phase I ESA, suggesting USTs were either removed or are still present. The test pits will be completed for the purposes of confirming the prior geophysical surveys and locating current or former USTs. Two test pits will be completed at each patched location and one test pit will be completed where the suspected fill line enters the Site; however, the number of test pits and their locations may change based on field observations.

Groundwater Monitoring Well Installation and Sampling

- In addition to the groundwater monitoring well installed during Langan's May 2015 Subsurface Investigation (MW-11 which is screened from 39- to 59-feet bgs), five of the proposed soil boring locations will be converted into permanent groundwater monitoring wells to allow for the collection of groundwater samples for laboratory analysis and confirmation of groundwater flow direction. If MW-11 is observed to no longer be functional, a sixth permanent groundwater monitoring well will be installed in its vicinity. The monitoring wells will be installed by a licensed well driller and will be constructed using 10 feet of 2-inch diameter 0.020-slot screen for the purposes of collecting groundwater samples to assess Site groundwater conditions. Well screens will be placed

such that they straddle the water table for the purposes of identifying if light non-aqueous phase liquids (LNAPL) exist at the Site.

- Due to the anticipated depth of groundwater (42 feet bgs), the permanent groundwater monitoring wells will be installed using Sonic drilling methods.
- The new wells, and the well previously installed during the May 2015 Subsurface Investigation, will be developed or redeveloped by pumping and surging the screened interval.
- Prior to groundwater sampling, all wells will be gauged to document static water levels. Langan will survey the vertical location of the monitoring wells, including ground surface elevation, outer casing elevation, and inner casing elevation. This data will be used with the groundwater well gauging data to prepare a sample location plan and a groundwater contour map depicting the elevation of the water table and groundwater flow direction across the Site.
- At least one week following development of the permanent groundwater monitoring wells, groundwater samples will be collected via USEPA low-flow sampling methods for analysis of VOCs, SVOCs, total and dissolved TAL metals, hexavalent chromium, PCBs, herbicides, pesticides, PFAs and 1,4-dioxane analyses in accordance with typical NYSDEC BCP requirements.
- If NAPL is observed, a fingerprint sample will be collected for petroleum identification analysis.

<u>Soil Vapor Point Installation and Sampling</u>

- Seven soil vapor points will be installed at the Site to a depth approximately 6 inches below the anticipated depth of development, which corresponds to approximately 20.5 feet bgs.
- Eight soil vapor points will be installed at the Site to approximately 5-feet bgs to assess near-surface soil vapor and determine if the site poses a significant threat to both on- and off-site receptors as part of the forthcoming Qualitative Human Health Exposure Assessment (QHHEA).
- Soil vapor points will be constructed with Teflon-lined polyethylene tubing and a stainless-steel soil vapor screen and sealed using bentonite. Each point will be sampled as per NYSDOH and NYSDEC guidelines (including sample point seal helium-testing etc.) for analysis of VOCs via USEPA Method TO-15.

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

The field investigation will be completed in accordance with the procedures specified in Langan's Health and Safety Plan (HASP) and Quality Assurance Project Plan (QAPP) provided in Appendices A and B, respectively. A Community Air Monitoring Plan will be implemented during this investigation (see Section 3.6.2).

Names, contact information, and roles of the principal personnel who will participate in the investigation, including laboratory subcontractor, are listed below. Resumes for each Langan employee are provided in the QAPP (Appendix B).

Personnel	Investigation Role	Contact Information
Chris McMahon, CHMM Langan	Qualified Environmental Professional	Phone – 973-560-4900 Email – cmcmahon@langan.com
Jessica Friscia, P.E. Langan	Project Manager/Remedial Engineer	Phone – 973-560-4900 Email – jfriscia@langan.com
Tony Moffa, CHMM Langan	Langan Health & Safety Officer	Phone – 215-491-6500 Email – tmoffa@langan.com
Brandon Reiner Langan	Field Team Leader	Phone –973-560-4491 Email – breiner@langan.com
Heather Nunn Langan	Quality Assurance Officer	Phone – 215-491-6569 Email – hnunn@langan.com
Emily Strake Langan	Data Validator/Program Quality Assurance Monitor	Phone – 215-491-6526 Email – estrake@langan.com
Ben Rao Alpha Analytical, Inc.	Laboratory	Phone – 201-812-2633 Email – brao@alphalab.com
Shaun Bollers NYSDEC	Project Manager	Phone – 718-482-4096 Email – shaun.bollers@dec.ny.gov
Sally Rushford NYSDOH	Project Manager	Phone – 518-402-7860 Email – sally.rushford@health.ny.gov

3.1 Geophysical Survey

As a Site-wide geophysical survey was previously completed in January 2020, the geophysical survey proposed to be completed as part of this Remedial Investigation will be focused on providing utility clearance for the investigation prior to commencing subsurface work. The geophysical survey may be completed using a range of geophysical instruments, including electromagnetic and utility line locator instruments, and ground-penetrating radar (GPR). The

results of the survey may necessitate relocation of some of the proposed boring locations shown on Figure 5.

3.2 Soil Investigation

3.2.1 Drilling and Logging

An environmental drilling subcontractor will advance up to seven soil borings as part of the investigation. Borings will be advanced for the purposes of characterizing the nature and extent of contamination identified within the historic fill material, which is present to an approximate depth of 9.5-feet below existing grades at the site. Additionally, the soil investigation activities will also characterize the underlying native soil conditions to determine if any impacts exist within this material due to the presence of overlying contamination or historical site operations. The soil borings completed as groundwater monitoring wells will be advanced to the depth corresponding to five feet below the observed groundwater table, which is anticipated to be encountered at approximately 42 feet bgs. The soil borings not completed as groundwater monitoring wells will be advanced to a minimum of 25 feet bgs. If evidence of impacts is identified in soil borings where monitoring wells are not proposed beyond the proposed 25 foot depth, the soil borings will be further advanced to a minimum of 5-feet beyond the observed impacts. A Langan field engineer, scientist, or geologist will document the work, screen the soil samples for environmental impacts, and collect soil samples for laboratory analyses per Section 3.2.2. Soil will be screened continuously to the boring termination depth for total organic vapor (TOV) concentration using a PID equipped with a 10.6 electron volt (eV) bulb, and for visual and olfactory indications of environmental impacts (e.g., staining and odor). Soil descriptions will be recorded in boring logs.

Non-disposable, down-hole drilling equipment and sampling apparatus will be decontaminated between locations with Alconox® (or similar) and water where grossly impacted material is identified. Following sampling, each soil boring will be backfilled with granulated bentonite below the groundwater interface and/or clean sand in the vadose zone.

3.2.2 Soil Sampling and Analysis

Borings will be advanced for site-wide characterization of historic fill and native soil. At soil boring locations where groundwater monitoring wells are proposed (LSB-1, LSB-2, and LSB-5 through LSB-7), discrete soil samples will be collected from the interval directly below ground surface (0 to 2 feet bgs) or from the two-foot interval where the greatest

impacts are observed, the two-foot interval located beneath the interval exhibiting the greatest level of impacts or the historic fill/native material interface, and the two-foot interval corresponding to immediately below the groundwater table. At soil boring locations where groundwater monitoring wells are not proposed (LSB-3 and LSB-4), discrete soil samples will be collected from the interval directly below ground surface (0 to 2 feet bgs) or from the two-foot interval where the greatest impacts are observed, the two-foot interval corresponding to immediately below the interval exhibiting the greatest level of impacts or the historic fill/native material interface, and the two foot interval corresponding to immediately below the anticipated maximum excavation depth for the proposed remediation (i.e. 20 to 22 feet bgs). Samples will be analyzed for VOCs, SVOCs, TAL metals, hexavalent chromium, PCBs, herbicides, pesticides. PFAS and 1,4-dioxane analysis in accordance with NYSDEC BCP requirements and the October 2020 *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Party 375 Remedial Programs.* If NAPL is observed, a fingerprint sample will be collected for petroleum identification analysis.

Soil samples will be collected in laboratory-supplied containers and will be sealed, labeled, and placed in a cooler containing ice (to maintain a temperature of approximately 4 degrees Celsius) for delivery to Alpha Analytical, Inc. (Alpha), a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory.

QA/QC procedures are described in the QAPP provided as Appendix B.

3.2.3 Test Pit Investigation

An environmental subcontractor will excavate seven test pits to approximately 8 feet bgs at the three locations at the Site where patching was observed within the existing parking lot and at the location where the suspected fill line beneath the St. Felix Street sidewalk enters the Site. These include three areas in the central-western portion of the Site where the asphalt was observed to have been cut and patched during Langan's 2015 Phase I ESA, suggesting USTs were either removed or are still present. The test pits will be completed for the purposes of confirming the prior geophysical surveys and locating current or former USTs. Two test pits will be completed at each patched location and one test pit will be completed where the suspected fill line enters the site; however the number of test pits and their locations may change based on field observations. A Langan field engineer, scientist, or geologist will document the work, screen the test pit spoils for environmental impacts, and note any evidence indicative of the presence or former presence of a UST. Soil will be screened for TOV concentration using a PID equipped

with a 10.6 eV bulb, and for visual and olfactory indications of environmental impacts (e.g., staining and odor). Soil descriptions will be recorded in a test pit log.

3.3 Groundwater Investigation

3.3.1 Monitoring Well Installation

Five of the proposed soil boring locations will be converted into groundwater monitoring wells. If the historical groundwater monitoring well installed during Langan's May 2015 Subsurface Investigation is observed to no longer be functional, a sixth permanent groundwater monitoring well will be installed in its vicinity. Groundwater monitoring wells will be installed by a licensed well driller using Sonic drilling methods. During well installation, soil conditions will be screened, logged, and sampled as described above in Section 3.2.

The proposed monitoring wells will be constructed using 2-inch-diameter polyvinyl chloride (PVC) riser pipe attached to 10-foot long schedule-40, 0.020-inch slotted, 2-inch-diameter PVC screen. Well screens will be placed such that they straddle the water table for the purposes of identifying if light non-aqueous phase liquids (LNAPL) exist at the Site. The well annulus around the screen will be backfilled with clean sand to about 2 feet above the top of the screen. A minimum 2-foot bentonite seal will be installed above the sand, and the borehole annulus will be backfilled with non-impacted soil cuttings and/or clean sand and will be finished with flush-mounted metal manhole cover set in concrete.

Following installation the new wells, and potentially the well previously installed during the May 2015 Subsurface Investigation (MW-11), will be developed or redeveloped by surging a surge block, a weighted bailer, or surge pumping techniques across the well screen to agitate and remove fine particles. The surge block, bailer, or submersible pump will be surged across the submerged well screen in 2- to 3-foot increments for approximately 2 minutes per increment. During well development, the purged water will be monitored using a water quality meter. The well will be considered developed once the turbidity of the purge water is measured to 50 nephelometric turbidity units (NTUs) or less. If the turbidity readings stabilize (within a 10% range) without declining to 50 NTUs, development will continue with measurements of pH, specific conductance, temperature, dissolved oxygen, and oxidation-reduction potential (ORP) being collected in five-minute intervals. Monitoring well development will be completed when three consecutive measurements for each of the parameters (pH, specific conductance, temperature, dissolved oxygen, and ORP) are within a 10% range. If the parameters do

not stabilize after four hours of continuous development, the Department's Project Manager will be contacted to assess the monitoring well development process. The well will then be allowed to sit for a minimum of one week before sampling. Langan will survey the permanent monitoring wells as discussed in Section 3.3.3 in order to determine well casing elevations.

3.3.2 Groundwater Sampling and Analysis

Prior to completion of groundwater sample collection, all monitoring wells will be gauged for the presence of LNAPL and dense non-aqueous phase liquid (DNAPL). If detected, NAPL samples will be collected for petroleum identification analysis.

At least one week following development of the permanent groundwater monitoring wells, groundwater samples will be collected via USEPA low-flow sampling methods for analysis of VOCs, SVOCs, total and dissolved TAL metals, hexavalent chromium PCBs, herbicides, pesticides, PFAs and 1,4-Dioxane analyses in accordance with the October 2020 *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Party 375 Remedial Programs*.

Groundwater samples will be collected into laboratory-supplied containers and will be sealed, labeled, and placed in a cooler containing ice (to maintain a temperature of approximately 4 degrees Celsius) for delivery to a NYSDOH ELAP-certified analytical laboratory. QA/QC procedures are described in the QAPP provided as Appendix B.

3.3.3 Monitoring Well Survey and Synoptic Gauging

Langan will survey vertical location of the monitoring wells, including ground surface elevation, outer casing elevation, and inner casing elevation. This data will be used with the groundwater well gauging data to prepare a sample location plan and a groundwater contour map depicting the elevation of the water table across the Site. Vertical control will be established by surveying performed relative to North American Vertical Datum of 1988 (NAVD88) by a New York State-licensed land surveyor. Elevations of the top of monitoring well casings and protective well casings will be surveyed to the nearest 0.01 foot. A synoptic gauging event will be performed to document static water levels. All on-site wells will be gauged during this event.

QA/QC procedures to be followed are described in the QAPP provided as Appendix B.

3.4 Soil Vapor Investigation

3.4.1 Soil Vapor Point Installation

A total of fifteen soil vapor points will be installed at the Site. Each vapor probe will be installed by a licensed well driller using direct-push drilling methods and will consist of a new, dedicated stainless steel screen implant connected to polyethylene or Teflon™-lined tubing extended to the target depth. Eight soil vapor points (LSV-1 and LSV-2A through LSV-8A) will be extended to approximately 5 feet bgs. At the seven locations within the building footprint, collocated soil vapor points (LSV-2B through LSV-8B) will be extended to approximately six inches below the anticipated depth of the development, corresponding to approximately 20.5 feet bgs. Quartz filter media will be used to backfill the screened interval followed by No. 2 sand to approximately 0.5 feet above the screened interval followed by a hydrated granular bentonite clay to the ground surface. Each soil vapor sampling location will be sealed at the surface with hydrated bentonite clay.

3.4.2 Soil Vapor Sampling and Analysis

In accordance with the October 2006 NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*, each soil vapor sampling point will be tightness tested using the helium tracer gas method and purged at a flow-rate of <200-ml per minute for 5 minutes into a 1-liter tedlar bag to obtain a PID reading. Helium concentrations below 5% must be observed prior to sample collection.

Soil vapor samples will be laboratory analyzed for VOCs via the USEPA TO-15 Method. Samples will be collected in laboratory-cleaned and batch-certified evacuated 6-Liter stainless steel summa canisters with regulators supplied by Alpha. The regulators will be set to collect each sample over a 2-hour sampling period (a flow rate of <200-ml per minute) as per NYSDOH soil vapor sampling guidance. Samples will be transferred to the laboratory immediately after field sampling is completed and stored at a maximum temperature of 30° Celsius.

3.5 Data Management and Validation

Alpha Analytical, Inc. (Alpha), a NYSDOH ELAP-approved laboratory, will analyze soil, groundwater, soil vapor and ambient air samples. Laboratory analyses will be conducted in accordance with USEPA SW-846 methods and NYSDEC Analytical Services Protocol (ASP) B deliverable format. Environmental data will be reported electronically using the database

software application EQuIS as part of NYSDEC's Environmental Information Management System (EIMS).

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

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

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

The DUSRs will be prepared and then reviewed by the Program Quality Assurance Monitor before issuance. The DUSRs will provide a detailed assessment of each sample delivery group (SDG) and present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and Chain of Custody procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method. Additional details on the DUSRs are provided in the QAPP in Appendix B.

3.6 Management of Investigation-Derived Waste

Investigation-derived wastes (IDW) (i.e., grossly-contaminated soil cuttings and purge water) will be containerized and staged on-site, pending proper disposal at an off-site facility. Soil cuttings with no apparent staining, odors, or elevated PID readings will be used to backfill boring holes at depths corresponding to the intervals that they originated from. Soil to be disposed off-site will be placed in 55-gallon, United Nations/Department of Transportation (UN/DOT)-approved drums. Decontamination fluids, if necessary, will be placed in UN/DOT-approved fluid drums with closed tops. All drums will be properly labeled, sealed, and characterized as necessary. In accordance with 6 NYCRR Part 360, IDW will be temporarily stored on-site in a secured location for no longer than 60 days (for petroleum contaminated soils) or 365 days (for non-petroleum contaminated

soil) prior to off-site disposal. If RI analytical data is insufficient to gain disposal facility acceptance, waste characterization samples will be analyzed for parameters that are typically required by disposal facilities, such as TCL VOCs, SVOCs, metals, PCBs, pesticides, herbicides, Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, Resource Conservation and Recovery Act (RCRA) characteristics including ignitability, corrosivity and reactivity, and paint filter. Additional sampling and analyses may be required based on the selected disposal facility. Waste characterization samples will be submitted to Alpha for analysis in accordance with the QAPP provided in Appendix B. Management of IDW will comply with NYSDEC DER-10 3.3(e).

3.7 Air Monitoring

Air monitoring will be conducted for Site personnel and the community (Community Air Monitoring Program [CAMP]). Fugitive particulate (dust) generation that could affect site personnel or the public is not expected because intrusive work is limited to boring, monitoring well, and soil vapor point installation, which does not disturb large volumes of soil.

Dust emissions will be monitored using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10). Organic odors will be monitored with a PID. Dust and odor suppression measures (e.g., water misting, odor suppressant) will be implemented as required. All PIDs used will be equipped with a 10.6 eV bulb.

3.7.1 Personnel Air Monitoring

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

3.7.2 Community Air Monitoring Plan

In addition to air monitoring in the worker breathing zone, Langan will conduct community air monitoring in compliance with the NYSDOH Generic CAMP. CAMP deployment will comply with NYSDEC DER-10 Appendix 1A and Appendix 1B and NYSDOH Special Requirements CAMP for Work within 20 Feet of Potentially Exposed Individuals or Structures. NYSDEC DER-10 Appendix 1A and Appendix 1B and the Special Requirements CAMP are included as Appendix D.

Langan will conduct periodic monitoring for VOCs during non-intrusive work such as the collection of groundwater samples. Periodic monitoring may include obtaining measurements upon arrival at a location, when opening a monitoring well cap, when bailing/purging a well, and upon departure from a location.

Langan will also conduct monitoring for VOCs and particulates during ground-intrusive work (i.e., soil boring advancement and monitoring well installation). Langan will measure upwind concentrations at the start of each workday and periodically throughout the day to establish background concentrations. Langan will monitor VOCs at the upwind and downwind perimeter of the work zone, which will be established at points on the Site where the general public or site employees may be present (for example, in the vicinity of St. Felix Street, in the vicinity of Ashland Place, and/or in the vicinity of the adjacent buildings). Monitoring for VOCs will be conducted with a PID. If VOC concentrations exceed the action levels identified in the CAMP, work will stop, and corrective measures will be taken.

Langan will also monitor particulates at the upwind and downwind perimeter of the work zone. Dust emissions will be monitored using real-time monitoring equipment capable of measuring PM-10 (e.g., DustTrak). If dust emissions exceed the action levels identified in the CAMP, work will stop, and dust suppression measures will be used.

Community air monitoring requirements will be conducted during all ground intrusive activities.

Additionally, the Special Requirements CAMP will be implemented when remedial investigation activities are performed within 20 feet of occupied structures or potentially exposed populations. The requirements, included in Appendix D, are as follows:

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied

structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 $\mu g/m^3$, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 $\mu g/m^3$ or less at the monitoring point.
- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. This requirement, however, will not be applicable to the Site.

CAMP data summary tables will be provided to NYSDEC and NYSDOH on a weekly basis at a minimum, and NYSDEC and NYSDOH will be notified immediately (within 24 hours or one business day) of any CAMP exceedances and corrective actions taken, independently of the Daily Field Reports discussed below.

3.8 Qualitative Human Health Exposure Assessment

A QHHEA will be conducted in accordance with Appendix 3B of the NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation. The assessment will be submitted in the Remedial Investigation Report (RIR).

4.0 REMEDIAL INVESTIGATION REPORT

4.1 Daily Field Reports

Daily reports will be prepared and submitted to the NYSDEC and NYSDOH project managers by noon on the day following the reporting period and will include:

- An update of progress made during the reporting day
- Photographic documentation of the activities completed during the reporting day
- Identification of samples collected during the reporting day
- Locations and references to a site map for completed activities
- A summary of any and all complaints with relevant details, including contact information

- A summary of CAMP findings, including elevated concentrations and response actions, if any
- An explanation of notable site conditions
- A list of anticipated work for the following reporting day

Daily reports are not intended to notify the NYSDEC of emergencies (e.g., accidents, spills), request changes to the RIWP, or communicate other sensitive or time-critical information. However, such conditions will also be included in the daily reports. Emergency conditions and changes to the RIWP will be communicated directly to the NYSDEC Project Manager.

4.2 Remedial Investigation Report

Following completion of the RI and receipt of analytical data, a Remedial Investigation Report (RIR) will be prepared in accordance with the applicable requirements of DER-10 Section 3.14. The report will include:

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

The report will summarize the nature and extent of contamination at each area of concern and identify unacceptable exposure pathways (as determined through a Qualitative Human Health Exposure Assessment).

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

The RIR will be provided in an electronic format to the NYSDEC.

5.0 SCHEDULE

Table 2 presents an estimated schedule for the proposed RI, remedial action, and reporting. If the schedule changes, it will be updated and submitted to NYSDEC.

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TABLES

Table 1

PROPOSED SAMPLING SUMMARY

130 SAINT FELIX STREET

Brooklyn, New York

Matrix	Sample Depth (ft bgs)	Sample Location	Rationale	Analysis	Hold Time
Soil	2-ft interval directly below ground surface (0 to 2 feet bgs) or where the greatest impacts are observed, the two-foot interval located beneath the interval exhibiting the greatest level of impacts or the historic fill/native layer interface, and the two-foot interval corresponding to immediately below the groundwater table	LSB-1	Site Wide Assessment of Soil	VOCs (EPA 8260C) SVOCs (EPA 8270D) PCBs (EPA 8270D) Herbicides (EPA 8151A) Pesticides (EPA 8081B) TAL Metals (EPA 6010C, EPA 7470, EPA 7196A, EPA 9014/9010C) Hexavalent Chromium (EPA 7196A) PFAs (EPA 537 (Modified)) 1,4-Dioxane (EPA 8270D)	**VOCs -** 14 days, freeze at lab within 48 hours **SVOCs -** 14 days extract, 40 days after extraction to analysis **1,4-Dioxane -** 14 days extract, 40 days after extraction to analysis **TAL Metals** - 6 months, except Mercury 28 days **Hexavalent Chromium** - 28 days **PFAs** - 14 days extract, 40 days after extraction to analysis **Herbicides -** 14 days extract, 40 days after extraction to analysis **Pesticides -** 14 days extract, 40 days after extraction to analysis **PCBs -** 14 days extract, 40 days after extraction to analysis
		LSB-2	AOC-1, AOC-2, and Site Wide Assessment of Soil		
		LSB-5	Site Wide Assessment of Soil		
		LSB-6	AOC-1 and Site Wide Assessment of Soil		
		LSB-7	AOC-2 and Site Wide Assessment of Soil		
	2-ft interval directly below ground surface (0 to 2 feet bgs) or where the greatest impacts are observed, the two-foot interval located beneath the interval exhibiting the greatest level of impacts or the historic fill/native layer interface, and the 2-foot interval below proposed development depth (approx. 20 to 22 ft bgs)	LSB-3	AOC-1 and Site Wide Assessment of Soil		
		LSB-4	Site Wide Assessment of Soil		
Groundwater	---	LMW-1	Site Wide Assessment of Groundwater	VOCs (EPA 8260C) SVOCs (EPA 8270D) PCBs (EPA 8082A) Herbicides (EPA 8151A) Pesticides (EPA 8081B) Total/Dissolved TAL Metals (EPA 6010C, EPA 7470, EPA 7196A, EPA 9014/9010C) Hexavalent Chromium (EPA 7196A) PFAs (EPA 537 (Modified)) 1,4-Dioxane (EPA 8270D SIM)	**VOCs -** 14 days **SVOCs -** 7 days to extract, 40 days after extraction to analysis **1,4-Dioxane** - 7 days to extract, 40 days after extraction to analysis **TAL Metals** - 6 months, except Mercury 28 days **Hexavalent Chromium** - 24 hours **PFAs** - 14 days extract, 40 days after extraction to analysis **Herbicides** - 7 days to extraction, 40 days after extraction to analysis **Pesticides** - 7 days extract, 40 days after extraction to analysis **PCBs** - 7 days extract, 40 days after extraction to analysis
		LMW-2	AOC-1, AOC-2, and Site Wide Assessment of Groundwater		
		LMW-3	Site Wide Assessment of Groundwater		
		LMW-4	AOC-1 and Site Wide Assessment of Groundwater		
		LMW-5	AOC-2 and Site Wide Assessment of Groundwater		
		MW11	Site Wide Assessment of Groundwater		
Soil Vapor	6-inch interval located from 4.5 to 5 ft bgs	LSV-1	Site Wide Assessment of Soil Vapor	VOCs (EPA TO-15)	**VOCs -** 30 days
	6-inch interval located from 4.5 to 5 ft bgs and 6-inch interval below proposed development depth (approx. 20 to 20.5 ft bgs)	LSV-2A/B	AOC-1, AOC-2 and Site Wide Assessment of Soil Vapor		
		LSV-3A/B	Site Wide Assessment of Soil Vapor		
		LSV-4A/B	AOC-1 and Site Wide Assessment of Soil Vapor		
		LSV-5A/B	Site Wide Assessment of Soil Vapor		
		LSV-6A/B			
		LSV-7A/B	AOC-1 and Site Wide Assessment of Soil Vapor		
		LSV-8A/B	AOC-2 and Site Wide Assessment of Soil Vapor		

Table 2
ESTIMATED PROJECT SCHEDULE
130 SAINT FELIX STREET
Brooklyn, New York

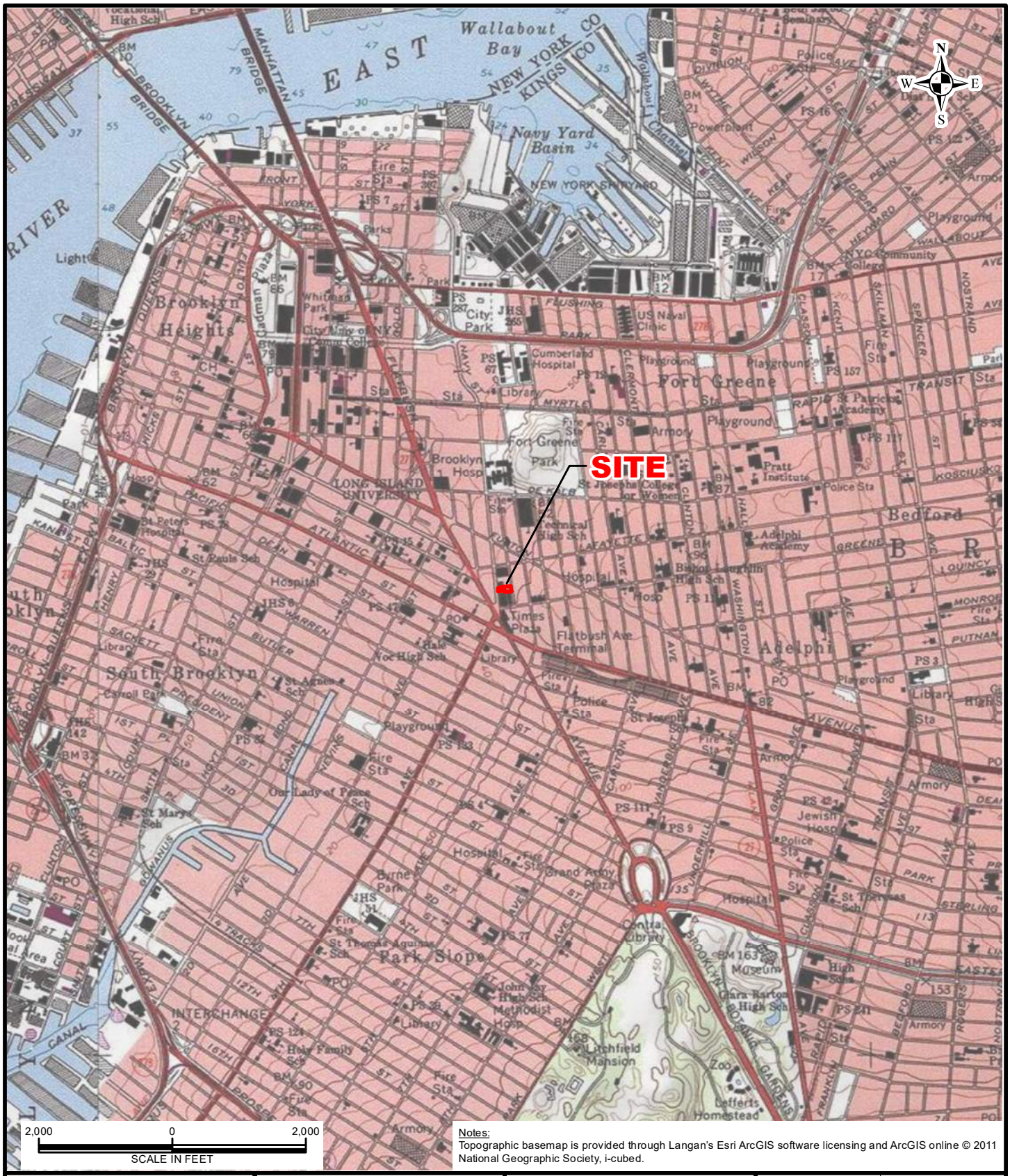
Estimated Project Schedule

Item	Action	Weeks Following Approval of RIWP																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	29	30	31	32	33	34	35	54	55	79	91	107	108
1	Coordinate Geophysical Survey, Driller, Test Pit Contractor, and Laboratory	■	■																												
2	Perform Geophysical Survey			■																											
3	Advance Soil Borings, Install Monitoring Wells, Install Soil Vapor Points, Collect Soil, Groundwater, and Soil Vapor Samples, Complete Test Pits			■	■																										
4	Receipt of Laboratory Results								■	■																					
5	Data Validation										■	■	■																		
6	EQuIS™ Electronic Data Deliverable												■	■																	
7	Preparation and Submission of RIR													■	■	■	■														
8	NYSDEC & NYSDOH Review of RIR and Approval																	■	■												
9	RAWP Preparation and NYSDEC Submission																			■	■	■	■	■							
10	RAWP Public Comment Period and NYSDEC Approval																								■	■					
11	Implementation of RAWP with Engineering Oversight																										■	■			
12	Preparation and Submission of FER and SMP (if required)																											■	■		
13	NYSDEC & NYSDOH Review of FER (and SMP, if required)																												■	■	
14	NYSDEC Issues COC																														■

Notes:

a) This is an estimated schedule; actions and duration are subject to change.
b) NYSDEC = New York State Department of Environmental Conservation
c) RIR = Remedial Investigation Report
d) RIWP = Remedial Investigation Work Plan
e) RAWP = Remedial Action Work Plan
f) COC = Certificate of Completion

FIGURES



Notes:
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NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	100842301
Date	7/30/2020
Scale	1"=2,000'
Drawn By	ATR
Figure	1

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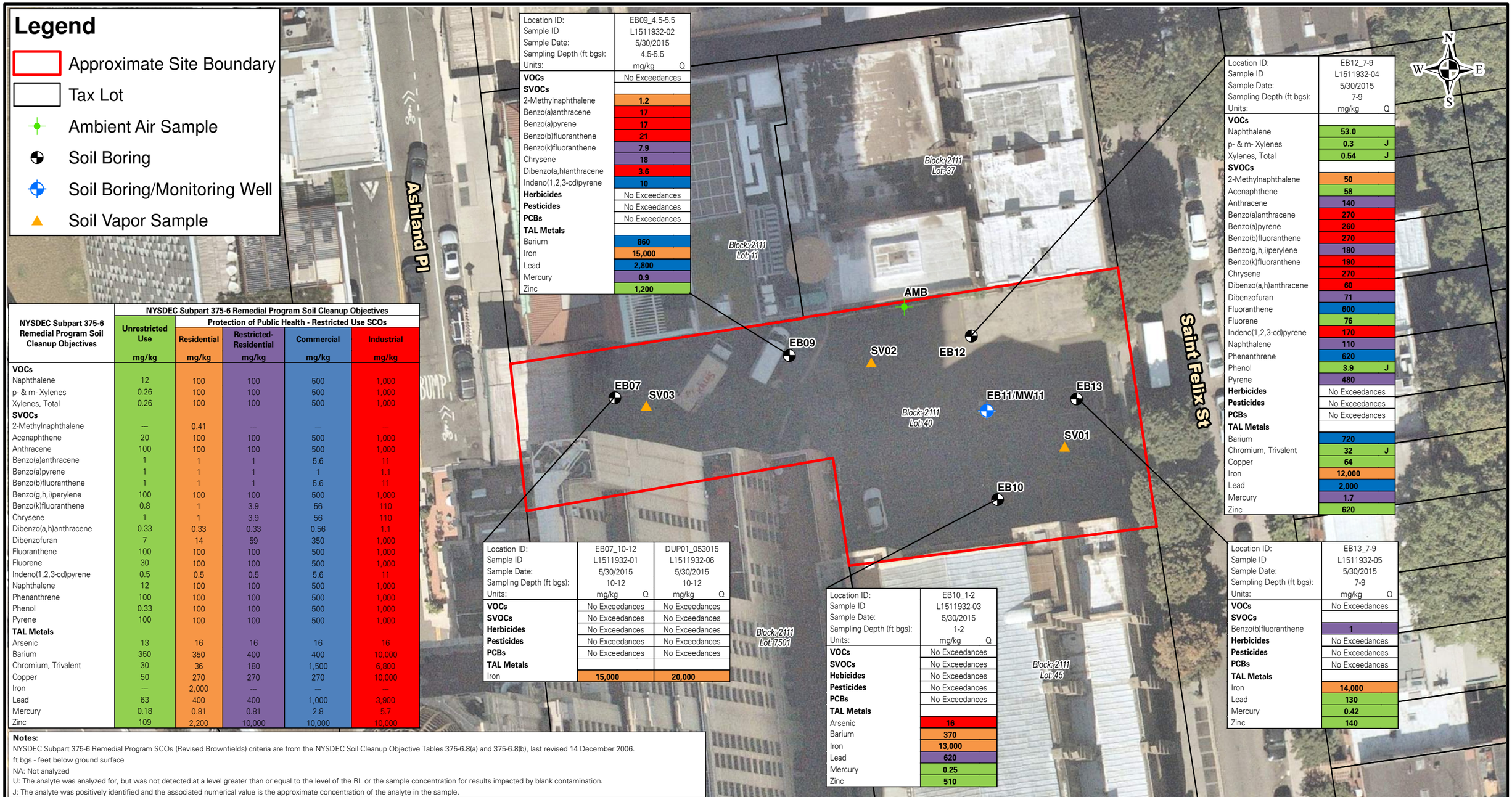
Path: \\langan.com\data\PAR\data3\100842301\Project Data\ArcGIS\MXD\Environmental_Figures\2020-07 - RIWP\Figure 1 - Site Location Map.mxd Date: 7/30/2020 User: aruane Time: 1:07:04 PM



Location ID:	EB09_4.5-5.5
Sample ID	L1511932-02
Sample Date:	5/30/2015
Sampling Depth (ft bgs):	4.5-5.5
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	
2-Methylnaphthalene	1.2
Benzo(a)anthracene	17
Benzo(a)pyrene	17
Benzo(b)fluoranthene	21
Benzo(k)fluoranthene	7.9
Chrysene	18
Dibenzo(a,h)anthracene	3.6
Indeno(1,2,3-cd)pyrene	10
Herbicides	No Exceedances
Pesticides	No Exceedances
PCBs	No Exceedances
TAL Metals	
Barium	860
Iron	15,000
Lead	2,800
Mercury	0.9
Zinc	1,200

Location ID:	EB12_7-9
Sample ID	L1511932-04
Sample Date:	5/30/2015
Sampling Depth (ft bgs):	7-9
Units:	mg/kg Q
VOCs	
Naphthalene	53.0
p- & m- Xylenes	0.3 J
Xylenes, Total	0.54 J
SVOCs	
2-Methylnaphthalene	50
Acenaphthene	58
Anthracene	140
Benzo(a)anthracene	270
Benzo(a)pyrene	260
Benzo(b)fluoranthene	270
Benzo(g,h,i)perylene	180
Benzo(k)fluoranthene	190
Chrysene	270
Dibenzo(a,h)anthracene	60
Dibenzofuran	71
Fluoranthene	600
Fluorene	76
Indeno(1,2,3-cd)pyrene	170
Naphthalene	110
Phenanthrene	620
Phenol	3.9 J
Pyrene	480
Herbicides	No Exceedances
Pesticides	No Exceedances
PCBs	No Exceedances
TAL Metals	
Barium	720
Chromium, Trivalent	32 J
Copper	64
Iron	12,000
Lead	2,000
Mercury	1.7
Zinc	620

Location ID:	EB07_10-12	DUP01_053015
Sample ID	L1511932-01	L1511932-06
Sample Date:	5/30/2015	5/30/2015
Sampling Depth (ft bgs):	10-12	10-12
Units:	mg/kg Q	mg/kg Q
VOCs	No Exceedances	No Exceedances
SVOCs	No Exceedances	No Exceedances
Herbicides	No Exceedances	No Exceedances
Pesticides	No Exceedances	No Exceedances
PCBs	No Exceedances	No Exceedances
TAL Metals		
Iron	15,000	20,000

Location ID:	EB10_1-2
Sample ID	L1511932-03
Sample Date:	5/30/2015
Sampling Depth (ft bgs):	1-2
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	No Exceedances
Hebicides	No Exceedances
Pesticides	No Exceedances
PCBs	No Exceedances
TAL Metals	
Arsenic	16
Barium	370
Iron	13,000
Lead	620
Mercury	0.25
Zinc	510

Location ID:	EB13_7-9
Sample ID	L1511932-05
Sample Date:	5/30/2015
Sampling Depth (ft bgs):	7-9
Units:	mg/kg Q
VOCs	No Exceedances
SVOCs	
Benzo(b)fluoranthene	1
Herbicides	No Exceedances
Pesticides	No Exceedances
PCBs	No Exceedances
TAL Metals	
Iron	14,000
Lead	130
Mercury	0.42
Zinc	140

NYSDEC Subpart 375-6 Remedial Program Soil Cleanup Objectives	NYSDEC Subpart 375-6 Remedial Program Soil Cleanup Objectives				
	Unrestricted Use	Protection of Public Health - Restricted Use SCOs			
		Residential	Restricted-Residential	Commercial	Industrial
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs					
Naphthalene	12	100	100	500	1,000
p- & m- Xylenes	0.26	100	100	500	1,000
Xylenes, Total	0.26	100	100	500	1,000
SVOCs					
2-Methylnaphthalene	---	0.41	---	---	---
Acenaphthene	20	100	100	500	1,000
Anthracene	100	100	100	500	1,000
Benzo(a)anthracene	1	1	1	5.6	11
Benzo(a)pyrene	1	1	1	1	1.1
Benzo(b)fluoranthene	1	1	1	5.6	11
Benzo(g,h,i)perylene	100	100	100	500	1,000
Benzo(k)fluoranthene	0.8	1	3.9	56	110
Chrysene	1	1	3.9	56	110
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1
Dibenzofuran	7	14	59	350	1,000
Fluoranthene	100	100	100	500	1,000
Fluorene	30	100	100	500	1,000
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11
Naphthalene	12	100	100	500	1,000
Phenanthrene	100	100	100	500	1,000
Phenol	0.33	100	100	500	1,000
Pyrene	100	100	100	500	1,000
TAL Metals					
Arsenic	13	16	16	16	16
Barium	350	350	400	400	10,000
Chromium, Trivalent	30	36	180	1,500	6,800
Copper	50	270	270	270	10,000
Iron	---	2,000	---	---	---
Lead	63	400	400	1,000	3,900
Mercury	0.18	0.81	0.81	2.8	5.7
Zinc	109	2,200	10,000	10,000	10,000

Notes:
NYSDEC Subpart 375-6 Remedial Program SCOs (Revised Brownfields) criteria are from the NYSDEC Soil Cleanup Objective Tables 375-6.8(a) and 375-6.8(b), last revised 14 December 2006.
ft bgs - feet below ground surface
NA: Not analyzed
U: The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
J: The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

30 0 30
SCALE IN FEET

Notes:
1. Aerial imagery provided by Nearmap ltd., collected September 20, 2019.
2. Parcel information from MapPLUTO 18v2 copyrighted by the New York City Department of Planning.
3. Sample locations and analytical results from June 2015 Subsurface Investigation Report, prepared by Langan.
4. All locations are approximate.

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130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN NEW YORK

Drawing Title
SOIL ANALYTICAL RESULTS

Project No. 100842301
Date 8/7/2020
Scale 1 " = 30 '
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Figure 2

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Units:	Ground Water Quality Standards[1] ug/L
VOCs	
Chloroform	7
Metals	
Chromium	50
Iron	300
Iron and Manganese	500
Sodium	20,000
Dissolved Metals	
Sodium	20,000

Sample ID:	MW11_053015	GWDUP01_053015
Laboratory Sample Number:	L1511932-07	L1511932-08
Sampling Date:	5/30/2015	5/30/2015
Units:	ug/L Q	ug/L Q
VOCs		
Chloroform	**15**	**15**
SVOCs	No Exceedances	No Exceedances
PCBs	No Exceedances	No Exceedances
Metals		
Chromium	**62.7**	41.1
Iron	**3090**	**2,420**
Iron and Manganese	**3,250.6**	**2,550**
Sodium	**5,1600**	**46,600**
Dissolved Metals		
Sodium	**62,800**	**54,200**

NOTES:
1. DEC establishes water quality standards and other criteria for many specific substances and are found in NYS regulation 6 NYCRR Part 703.5 (current through February 15, 2016). In the absence of established water quality standards, numeric guidance values are derived and compiled in Division of Water guidance (TOGS 1.1.1) (updated June 2004). Ambient standards and guidance values are supported by technical documents called "Fact Sheets" that are also available upon request from the NYSDEC.
http://www.dec.ny.gov/chemical/23853.html
http://www.dec.ny.gov/regulations/2652.html
ug/L: micrograms per liter
Exceedances of regulatory criteria are highlighted and **bold**.

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4. All locations are approximate.

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300 Kimball Drive
Parsippany, NJ 07054
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GROUNDWATER ANALYTICAL RESULTS

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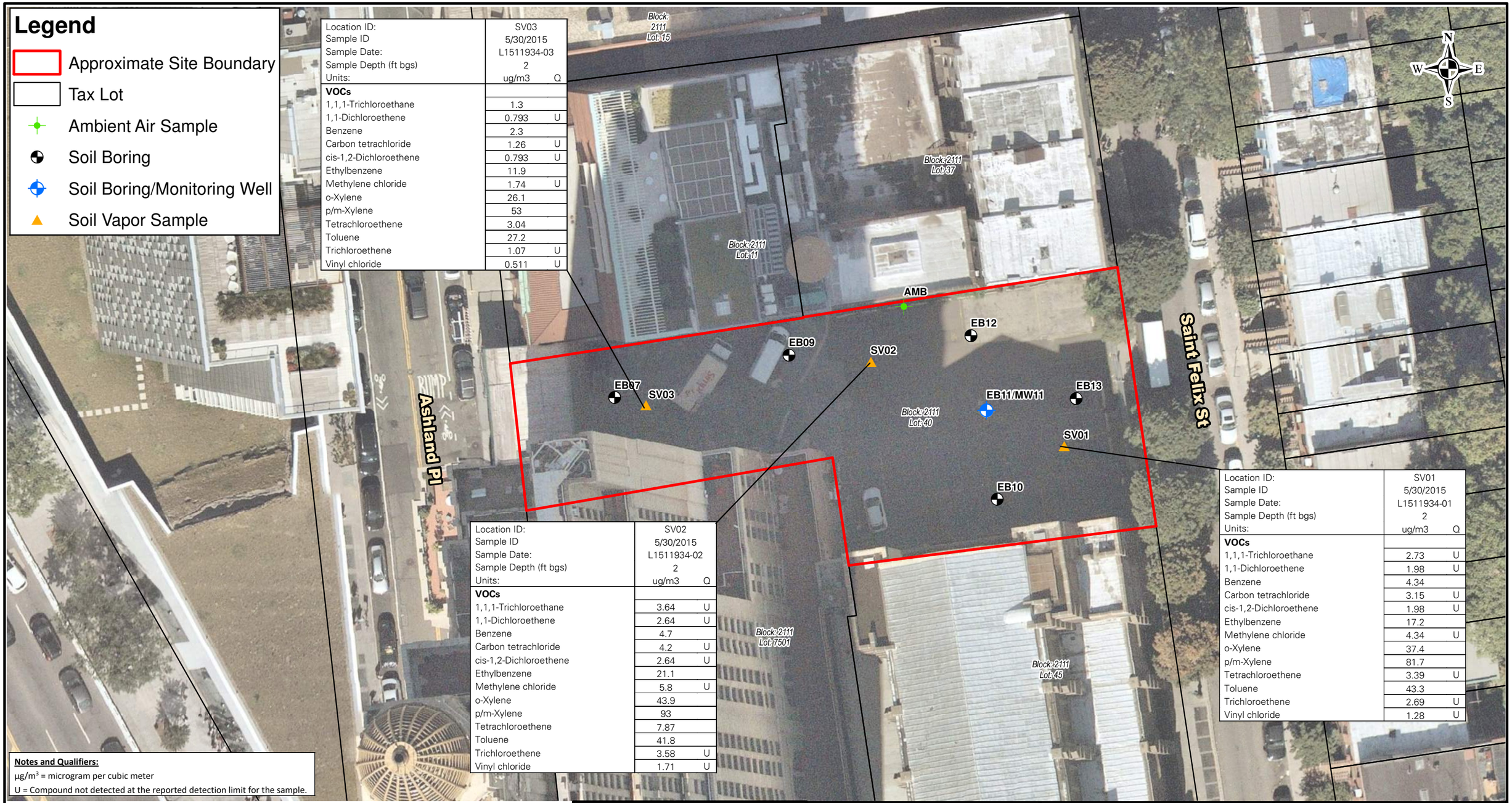

Location ID:	SV03	
Sample ID	5/30/2015	
Sample Date:	L1511934-03	
Sample Depth (ft bgs)	2	
Units:	ug/m3	Q
VOCs		
1,1,1-Trichloroethane	1.3	
1,1-Dichloroethene	0.793	U
Benzene	2.3	
Carbon tetrachloride	1.26	U
cis-1,2-Dichloroethene	0.793	U
Ethylbenzene	11.9	
Methylene chloride	1.74	U
o-Xylene	26.1	
p/m-Xylene	53	
Tetrachloroethene	3.04	
Toluene	27.2	
Trichloroethene	1.07	U
Vinyl chloride	0.511	U

Location ID:	SV02	
Sample ID	5/30/2015	
Sample Date:	L1511934-02	
Sample Depth (ft bgs)	2	
Units:	ug/m3	Q
VOCs		
1,1,1-Trichloroethane	3.64	U
1,1-Dichloroethene	2.64	U
Benzene	4.7	
Carbon tetrachloride	4.2	U
cis-1,2-Dichloroethene	2.64	U
Ethylbenzene	21.1	
Methylene chloride	5.8	U
o-Xylene	43.9	
p/m-Xylene	93	
Tetrachloroethene	7.87	
Toluene	41.8	
Trichloroethene	3.58	U
Vinyl chloride	1.71	U

Location ID:	SV01	
Sample ID	5/30/2015	
Sample Date:	L1511934-01	
Sample Depth (ft bgs)	2	
Units:	ug/m3	Q
VOCs		
1,1,1-Trichloroethane	2.73	U
1,1-Dichloroethene	1.98	U
Benzene	4.34	
Carbon tetrachloride	3.15	U
cis-1,2-Dichloroethene	1.98	U
Ethylbenzene	17.2	
Methylene chloride	4.34	U
o-Xylene	37.4	
p/m-Xylene	81.7	
Tetrachloroethene	3.39	U
Toluene	43.3	
Trichloroethene	2.69	U
Vinyl chloride	1.28	U

Notes and Qualifiers:

µg/m³ = microgram per cubic meter

U = Compound not detected at the reported detection limit for the sample.

30 0 30

SCALE IN FEET

Notes:
1. Aerial imagery provided by Nearmap ltd., collected September 20, 2019.
2. Parcel information from MapPLUTO 18v2 copyrighted by the New York City Department of Planning.
3. All locations are approximate.
4. Sample locations and analytical results from June 2015 Subsurface Investigation Report, prepared by Langan.

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Project

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BLOCK No. 2111, LOT No. 40

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SOIL VAPOR ANALYTICAL RESULTS

Project No.	Figure
100842301	4
Date: 7/30/2020	
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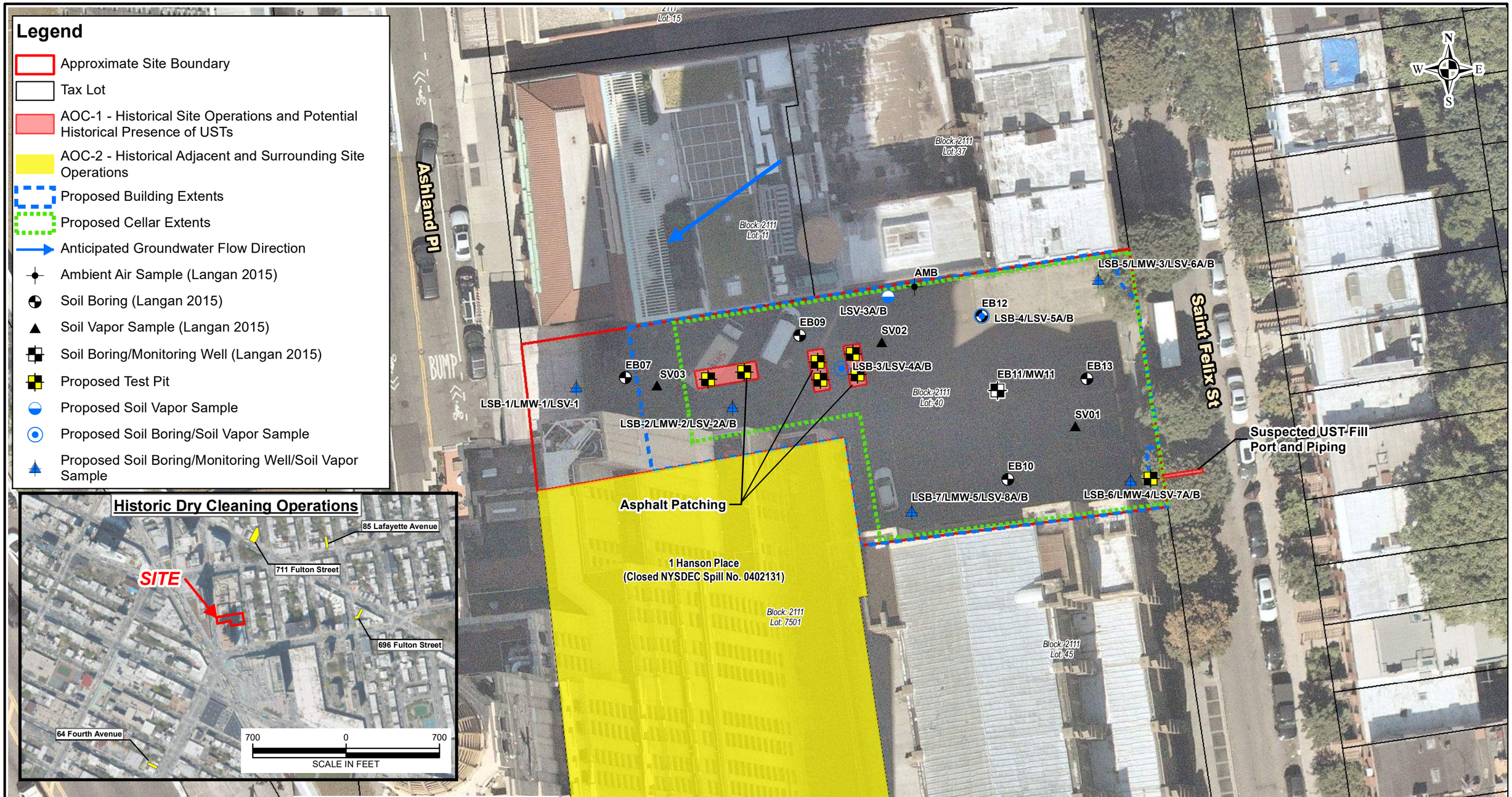

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Notes:
1. Aerial imagery provided by Nearmap ltd., collected September 20, 2019.
2. Parcel information from MapPLUTO 18v2 copyrighted by the New York City Department of Planning.
3. Historic sample locations from June 2015 Subsurface Investigation Report, prepared by Langan.
4. All historic sample locations are approximate.
5. UST fill port and piping were detected during NOVA's 2020 Geophysical Survey. Approximate locations of asphalt patches are based on field observations made by Langan in 2020.
6. Historic monitoring well MW11 will be resampled.
7. Proposed Test Pit locations may change based on field observations.
8. LSV-1 and LSV-2A through LSV-8A will be installed to 5 ft bgs and LSV-2B through LSV-8B will be installed to 20.5 ft bgs.

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Project
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BLOCK No. 2111, LOT No. 40
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Drawing Title
AREAS OF CONCERN AND PROPOSED SAMPLE LOCATION PLAN

Project No.	100842301
Date	12/11/2020
Scale	1 " = 30 '
Drawn By	ATR
Figure	5

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Path: \\Langan.com\data\PAR\data3\100842301\Project Data\ArcGIS\MXD\Environmental_Figures\2020-12 - Revised RIWP\Figure 5 - Areas of Concern and Proposed Sample Location Plan.mxd Date: 12/11/2020 User: ibaker Time: 2:03:06 PM

APPENDIX A

HEALTH AND SAFETY PLAN

REMEDIAL INVESTIGATION HEALTH AND SAFETY PLAN

for

130 SAINT FELIX STREET SITE
Brooklyn, New York
NYSDEC BCP No. C224306

Prepared For:

130 Saint Felix Street LLC
c/o Gotham Organization, LLC
432 Park Avenue South, 2nd Floor
New York, New York 10016

Prepared By:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054

5 August 2020
100842301

LANGAN

ENVIRONMENTAL HEALTH AND SAFETY PLAN

Client:	**130 Saint Felix Street, LLC**
Project:	**Remedial Investigation**
Location:	**130 Saint Felix Street, Brooklyn, New York**
Chemical Hazards:	**Volatile organic compounds (VOCs), Semi-volatile organic compounds (SVOCs), Metals**
Prepared By:	**LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C.**
Version:	**1**
Date:	**5 August 2020**

Client Contact:	**Bryan Kelly**	**(212) 716-2502**
Langan Project Manager (PM):	**Chris McMahon**	**(973) 560-4861**
Langan Health & Safety Manager (HSM):	**Tony Moffa, CHMM**	**(215) 491-6545**
Langan Health and Safety Officer (HSO):	**Field Personnel**	
WorkCare:	**1-888-449-7787**	
Langan Incident/Injury Hotline:	**(973) 560-4699**	

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APPROVALS

By signature, the personnel identified below hereby acknowledge that they have reviewed this Health and Safely Plan (HASP) and agree to comply with the requirements contained therein as well as the applicable provisions of 29 CFR Parts 1910 and 1926. Furthermore, in reviewing and accepting this HASP, as currently written, the undersigned agree that to the best of their knowledge, this HASP adequately identifies the activities and hazards associated with work at this site and describes the appropriate and necessary precautions and protections for site workers required by the applicable OSHA statutes and regulations.

LANGAN Project Manager - PM (Christopher McMahon)	5 August 2020 Date
LANGAN Health and Safety Manager (Tony Moffa, CHMM)	Date
LANGAN Health and Safety Officer – HSO	Date

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ATTACHMENT D	**Calibration Log**
ATTACHMENT E	**Emergency Notification Numbers**
ATTACHMENT F	**Accident / Incident Report Form**
ATTACHMENT G	**Jobsite Safety Inspection Checklist**
ATTACHMENT H	**NYSDOH Generic Community Air Monitoring Plan (CAMP)**
ATTACHMENT I	**CAMP Special Requirements**
ATTACHMENT J	**Safety Data Sheets (SDS)**
ATTACHMENT K	**Langan Guidelines**

1.0 INTRODUCTION

1.1 Purpose and Policy

This Health and Safety Plan (HASP) has been developed to comply with the regulations under Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120(b)(4), Hazardous Waste Operations and Emergency Response. It addresses foreseeable activities associated with the site work activities to be conducted at 130 Saint Felix Street in Brooklyn, New York (see Figure 1). This HASP establishes personnel protection standards and mandatory safety practices and procedures. Additionally, it assigns responsibilities, establishes standard operating procedures, and provides for contingencies that may arise while operations are being conducted at known or suspected hazardous waste sites.

Langan personnel involved with inspection of site work activities which involve the displacement of soil and/or material during the soil investigation in the identified Areas of Concern (AOCs) during the proposed investigation shall comply with the requirements of this HASP. All Langan personnel engaged in onsite activities will read this document carefully and complete the Safety Briefing Form (Attachment A), a copy of which will be provided to Langan's Project files. Contractors and subcontractors conducting investigation activities which will disturb or displace soil in the identified AOC are required to develop and follow their own HASP based on the identified hazards. All sampling data and environmental reports pertaining to the site that are available to Langan will be provided upon request to the Langan PM. Contractors and subcontractors are responsible for their own workers Health and Safety and providing a safe working environment in accordance with all applicable federal, state and local requirements. Each Subcontractor will have a designated Site Health and Safety Manager who will be responsible for ensuring that the designated procedures are implemented in the field. Personnel who have any questions or concerns regarding implementation of this plan are encouraged to request clarification from the Langan PM. Field personnel must follow the designated health and safety procedures, be alert to the hazards associated with working close to vehicles and equipment, and use common sense and exercise reasonable caution at all times.

This HASP covers investigation-related field activities which have the potential to disturb and/or displace potentially contaminated soil and groundwater. These activities include, but are not limited to: the completion of soil borings and

collection of soil samples, the installation of permanent groundwater monitoring wells and collection of groundwater samples, and the installation of temporary soil vapor points and the collection of soil vapor samples.

This HASP was prepared in accordance with the following documents and/or guidelines:

- Occupational Safety and Health Administration (OSHA) regulations for hazardous site workers (29 CFR 1910.120 and 29 CFR 1926); and,
- NIOSH/OSHA/USCG/USEPA *Occupational Safety and Health Guidance Manual for Hazardous Waste Site Activities.*

Langan's Health and Safety Program and Safe Operating Procedures support this site-specific HASP.

The level of protection and the procedures specified in this HASP represent the minimum health and safety requirements to be observed by Langan site personnel engaged in the referenced investigation and inspection of investigation activities. Unknown conditions may exist, and known conditions may change. Should an employee find himself or herself in a potentially hazardous situation, the employee will immediately discontinue the hazardous procedure(s) and either personally effect appropriate preventative or corrective measures, or immediately notify the Health and Safety Officer or the Langan PM of the nature of the hazard. In the event of an immediately dangerous or life threatening situation, the employee always has "stop work" authority. Any necessary revision to the Health and Safety procedures will be recorded in the Field Procedure Change Authorization Form (Attachment B), and will require authorization from the Langan Health and Safety Manager and Langan PM.

The provisions of this HASP address worker health and safety within defined contaminant zones and assume that work will be completed within a vacant lot. Additional provisions including the use of traffic control measures will be employed in order to avoid possible hazards associated with vehicular traffic and pedestrians.

THE ULTIMATE RESPONSIBILITY FOR THE HEALTH AND SAFETY OF THE INDIVIDUAL EMPLOYEE RESTS WITH THE EMPLOYEE AND HIS OR HER COLLEAGUES. Each employee is responsible for exercising the utmost care and good judgment in protecting his or her own health and safety and that of fellow employees. Should any employee observe a potentially unsafe condition or situation, it is the responsibility of that employee to immediately bring the observed condition to the attention of the appropriate health and safety personnel as designated above and to follow-up the verbal notification by completing the Unsafe Conditions and Practices Form provided in Attachment C, a copy of which will be provided to the Langan Health and Safety Officer.

"Extenuating" circumstances such as budget or time constraints, equipment breakdown, changing or unexpected conditions, never justify unsafe work practices or procedures. In fact, the opposite is true. Under stressful circumstances all project personnel must be mindful of the potential to consciously or unconsciously compromise health and safety standards, and be especially safety conscious. **ALL SITE PERSONNEL ARE EXPECTED TO CONSIDER "SAFETY FIRST" AT ALL TIMES.**

1.2 Site Descriptions

The approximately 12,519-square feet Site is located at 130 Saint Felix Street in the Fort Greene neighborhood of Brooklyn, New York, and is identified as Block 2111 and Lot 40 on the New York City (NYC) Tax Map. The Site is currently an at-grade asphalt paved parking lot and has been used as a parking lot since at least 1950. The Site is bound to the north by a four-story building occupied by the Brooklyn Music School and a seven-story building occupied by the Brooklyn Academy of Music; Saint Felix Street followed by five 2.75- to three-story residential buildings to the east; the 41-story mixed-use residential/commercial Williamsburgh Savings Bank Tower (1 Hanson Place) and a three-story church building to the south; and Ashland Place followed by a 31-story mixed-use residential/commercial building to the west. The Site is located within a commercial zoning district (C6-1) and is currently designated for garage/gas station use (G6) by the New York City Department of Finance. According to the New York City Department of City Planning zoning map dated 10 December 2019, the Site is located within the Special Downtown Brooklyn District. The Special Downtown Brooklyn District was created to establish special height and setback regulations and urban design guidelines to promote and support the continued growth of

Downtown Brooklyn as a unique mixed use area. The Volunteer is applying for a zoning map amendment to change from a C6-1 district to a C6-6 district on the western portion of the Site and from a C6-1 district to a C6-4 district on the eastern portion of the Site.

1.3 Scope of Work

The site work activities which will require the oversight by a Langan Engineer include the following scope and will include the completion of:

- Task 1: Completion of geophysical utility clearance;
- Task 2: Completion of soil borings;
- Task 3: Collection of soil samples;
- Task 4: Installation of permanent groundwater monitoring wells and temporary soil vapor points;
- Task 5: Collection of groundwater and soil vapor samples; and,
- Task 6: Completion of environmental test pits.

2.0 PROJECT TEAM ORGANIZATION AND RESPONSIBILITIES

This section specifies the Langan Project Organization.

2.1 Langan Project Manager

The Langan Project Manager (PM) is Christopher McMahon. The PM responsibilities include:

- Prepares and organizes the background review of site conditions, the site HASP, and the field team;
- Obtains permission for site access and coordinates activities with appropriate officials;
- Briefs the field team on their specific assignments;
- Coordinates with the Health and Safety Officer (HSO) to ensure that health and safety requirements are met;
- Serves as the liaison with public officials;
- Ensuring that this HASP is developed and approved prior to on-site activities;

- Ensuring that all the tasks in the project are performed in a manner consistent with Langan's comprehensive Health and Safety Program for Hazardous Waste Operations and this HASP.

2.2 Health and Safety Manager (HSM)

The Langan Corporate Health and Safety Manager (HSM) is Tony Moffa. His responsibilities include:

- Serving as a resource in the development and implementation of HASPs;
- Assist in reviewing results of Jobsite Safety Inspections;
- Assisting site Health and Safety Officer (HSO) with development of the HASP, updating HASP as dictated by changing conditions, jobsite inspection results, etc.;
- Maintaining all records on personnel (medical evaluation results, training and certifications, accident investigation results, etc.).

2.3 Langan Health and Safety Officer (HSO)

The Langan Health and Safety Officer (HSO) is to be identified prior to the start of field work. The HSO responsibilities include:

- Participating in the development and implementation of this HASP;
- Conducting Jobsite Safety Inspections (Attachment G) and correcting any shortcomings in a timely manner;
- Helping to select proper Personal Protective Equipment (PPE) and periodically inspecting it;
- Ensuring that PPE is properly stored and maintained;
- Controlling entry into and exit from the contaminated areas or zones of the site;
- Confirming each team member's suitability for work based on a current physician's recommendation;
- Monitoring the work parties for signs of stress, such as heat stress, fatigue, and cold exposure;
- Monitoring site hazards and conditions;

- Knowing (and ensuring that all site personnel also know) emergency procedures, evacuation routes, and the telephone numbers of the ambulance, local hospital, poison control center, fire department, and police department;
- Resolves conflicting situations which may arise concerning safety requirements and working conditions.
- Conducting daily tailgate meetings to review applicable Hazard Analyses (Table 3) as well as check-in with site personnel.
- Reporting any health and safety concerns during implementation of the tasks listed above to the Langan Project Manager and the Engineer of Record for the RIWP.

3.0 HAZARDS ANALYSIS

This section presents an assessment of the general, chemical, physical, and biological hazards that may be encountered during the tasks specified under this HASP (Section 1.3). A detail on types of potential contaminants of concerns Langan anticipates to encounter at different locations during the intrusive investigation is listed in Tables 1 and 2 of this HASP.

3.1 General Hazard Assessment

A general hazard assessment was conducted for the required field work described in Section 1.3 and the following potential hazards have been identified:

- Inhalation of volatile organic compounds (VOCs) with high volatilization potential;
- Inhalation of semi volatile organic compounds (SVOCs) with low volatilization potential;
- Ingestion of contaminants;
- Inhalation of dusts impacted with polycyclic aromatic hydrocarbons, metals and pesticides;
- Physical hazards associated with the use of heavy equipment;
- Excavation hazards;
- Tripping hazards;
- Noise exposure;
- Heat stress (depending on weather conditions);
- Cold exposure (depending on weather conditions);

- Flammable hazards;
- Electrical hazards; and,
- Use of personal protective equipment.

These hazards are further described in the task-by-task hazard analysis in Table 3. Specific chemical, physical and biological hazards are discussed below.

Mitigation and controls will include as needed work procedures, work/rest regiment, dust control measures, personal protective equipment, and respiratory protection as appropriate.

3.2 Chemical Exposure Hazards

The following chemical hazard evaluation for the proposed investigation activities is based on the previous environmental investigation of the site. The evaluation has been conducted to identify chemicals/materials that potentially may be present at the site, and to ensure that work activities, personnel protection, and emergency response are consistent with the specific contaminants that potentially could be encountered.

3.2.1 Specific Chemical Hazards Previously Detected at the Site

Impacted soil, groundwater, and soil vapor has been identified on the subject property as reported in the Subsurface Investigation Report prepared by Langan dated June 2015. This investigation identified a layer of historic fill to 9.5 feet below ground surface (bgs) and elevated concentrations of VOCs, SVOCs, and metals in soil. Groundwater analytical results revealed elevated concentrations of VOCs and metals and soil vapor analytical results revealed elevated concentrations of petroleum-related VOCs.

Table 1 lists Contaminants of Concern and potentially affected media. Exposure limits for potential contaminants that might be encountered in the field are listed in Table 2.

3.2.2 Chemical Hazard Exposure Routes

Potential hazards and their exposure routes include:

- Inhalation of organic vapors due to the presence of volatile organic compounds in soil, groundwater, and soil vapor and from diesel-powered equipment and minimal volatilization potential related to the presence of SVOCs in soil.
- Inhalation of dust impacted with SVOCs or metals associated with soil borings or soil sampling activity.
- Inadvertent ingestion of potentially toxic substances via hand to mouth contact or deliberate ingestion of materials inadvertently contaminated with potentially toxic materials.
- Dermal exposure and possible percutaneous (skin) absorption of certain lipophilic (readily absorbed through the skin) SVOCs.
- Skin and eye contact with contaminants at the site and decontamination activities.

Exposure limits and health effects of selected chemicals are in Table 2. The probability of exposure for each task is outlined in Table 3.

3.2.3 Control of Exposure to Chemical Hazards

To protect potentially exposed personnel the following procedures and protocols will be adopted and used as needed: work procedures will be adhered to, work zones will be established, dust control will be utilized, respirators (if required) and personal protective equipment will be worn, Dust monitoring will be conducted during times of disturbance of the impacted soil to assess the potential inhalation pathway of exposure and strict personnel decontamination procedures will be followed.

3.3 Physical Hazards

3.3.1 Temperature Extremes

<u>Hot Temperatures</u>
Heat stress is a significant potential hazard, which is greatly exacerbated with the use of PPE, in hot environments. The potential hazards of working in hot environments include dehydration, cramps, heat rash, heat

exhaustion, and heat stroke. If onsite workers exhibit the signs of heat exhaustion or heat stroke, they should seek immediate medical attention.

Cold Temperatures

Workers may be exposed to the hazard of working in a cold environment. Potential hazards in cold environments include frostbite, trench foot or immersion foot, hypothermia, as well as slippery surfaces, brittle equipment, poor judgment, and unauthorized procedural changes. In order to prevent frostbite, hypothermia, trench foot and immersion foot, the workers are responsible for dressing warmly in layers with thick socks, gloves, and appropriate head and face gear. Upon the onset of discomfort due to the cold, onsite workers should take regular five to ten minute breaks to warm up inside nearby buildings and to drink warm fluids. Please note that the NYCDEP statute prohibits idling an engine for more than three minutes (one-minute if adjacent to a school). This statue includes the use of a vehicle for the purpose of warming up employees. As such, all contractors and employees shall identify a place to warm up in advance. If discomfort continues and the onsite workers start to exhibit the signs of frostbite, hypothermia, trench foot or immersion foot, they should seek immediate medical attention.

3.3.2 Noise and Air Resources

Noise is a potential hazard associated with the operation of heavy equipment, power tools, pumps and generators. Hearing protection is required and shall be used in designated areas of the site as indicated by the posted signs.

3.3.3 Hand and Power Tools

In order to complete the various tasks for the project, personnel will utilize hand and power tools. The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. Hand and power tools will be inspected prior to use. Proper personal protective equipment shall be worn while utilizing hand and power tools. Ground Fault Circuit Interrupters (GFCIs) are required for all portable electric tools.

3.3.4 Slips, Trips, and Falls

Working in and around the site will pose slip, trip and fall hazards due to equipment, piping, slippery surfaces that may be oil covered, or from surfaces that are wet from rain or ice. Potential adverse health effects include falling to the ground and becoming injured or twisting an ankle. Good housekeeping at the site must be maintained at all times.

3.3.5 Fire and Explosion

Prior to starting all excavation work, a review of appropriate New York City maps will be conducted to identify potential hazards. The possibility of encountering fire and explosion hazards exists from under- ground utilities and gases. Therefore, all excavation equipment must be grounded.

3.3.6 Material Handling

Manual lifting of heavy objects may be required. Failure to follow proper lifting techniques can result in back injuries and strains. Back injuries are a serious concern as they are the most common workplace injury, often resulting in lost or restricted work time, and long treatment and recovery periods.

Whenever possible, heavy objects must be lifted and moved by mechanical devices rather than by manual effort. The mechanical devices will be appropriate for the lifting or moving task and will be operated only by trained and authorized personnel. Objects that require special handling or rigging will only be moved under the guidance of a person who has been specifically trained to move such objects, such as a Master Rigger or equivalent. Lifting devices, including equipment, slings, ropes, chains, and straps, will be inspected, certified, and labeled to confirm their weight capacities. Defective equipment will be taken out of service immediately and repaired or destroyed.

The lift and swing path of a crane/equipment will be watched and maintained clear of obstructions. Personnel will not pass under a raised load, nor will a suspended load be left unattended. Personnel will not be carried on lifting equipment, unless it is specifically designed to carry passengers.

All reciprocating, rotating, or other moving parts will be guarded at all times. Accessible fire extinguishers will be made available in all mechanical lifting devices. All material must be stored in tiers, racked, blocked, or otherwise secure to prevent sliding, falling, or collapse. All loads/material will be verified to be secure before transportation.

3.3.7 Confined Space/Excavation Hazards

Personnel entry into trenches or unshored (*e.g.,* lagging) excavations within the designated areas of concern will not be permitted. No other confined spaces are known to exist on Site. If entry into trenches or excavations is required, all work will stop until the HASP has been revised to address the new hazards.

3.3.8 Working Near Equipment

Personnel working in the immediate vicinity of heavy equipment (*e.g.*, excavators, loaders, etc.) may encounter physical hazards resulting from contact with equipment. Field personnel should be aware of the presence of these hazards at all times and take appropriate action to avoid them. Due to the limited ability to communicate when wearing respiratory protection, the risk is increased. Workers must be careful to communicate with heavy equipment operators regarding their location, and should maintain a safe distance from operating equipment at all times. Prior to working around equipment, the site personnel will review appropriate hand signals with the operator.

Equipment will be equipped with back up alarms.

3.3.9 Drill Rig Operations

In order to complete soil borings, permanent well installation, and temporary soil vapor point installation, both a track-mounted direct-push and Sonic drill rig will be used. Working with and near this equipment and associated power generators pose many potential hazards, including being struck by or against, or pinched/caught by moving parts. These hazards can result in serious physical harm. Other hazards include electrocution and explosion due to encountering overhead or underground utilities.

Drill rigs for hollow stem auger drilling and other machinery with exposed moving parts must be equipped with an operational emergency stop device. Drillers and other field personnel must be aware of the location of this device. This device must be tested prior to job initiation and periodically thereafter. The driller and helper shall not simultaneously handle augers unless there is a standby person to activate the emergency switch. Only equipment that has been approved by the manufacturer may be used in conjunction with site equipment and specifically to attach sections of drilling tools together. Pins that protrude excessively from augers shall not be allowed.

The driller must never leave the controls while the tools are rotating unless all personnel are kept clear of rotating equipment. A remote sampling device must be used to sample drill cuttings if the tools are rotating or if the tools are readily capable of rotating. Samplers must not reach into or near the rotating equipment. Drillers, helpers, and other field personnel must secure all loose clothing when in the vicinity of drilling operations. No person shall climb the drill mast while tools are rotating or without the use of ANSI-approved fall protection (approved belts, lanyards and a fall protection slide rail) or portable ladder that meets the requirement of the OSHA standard.

3.3.10 Electrical Safety

The use of hand and power tools can present a variety of hazards, including physical harm from being struck by flying objects, being cut or struck by the tool, fire, and electrocution. Ground Fault Circuit Interrupters (GFCIs) are required for all portable electric tools.

3.3.11 Utilities

Prior to the start of any intrusive work, the location of above-ground and underground utilities and other structures will be completed by the contractor/subcontractor responsible for completing investigation activities.

3.3.12 Vehicular Traffic

Portions of site activities (load in and load out) will be conducted in the street so vehicular and pedestrian traffic will be present. Appropriate precautions to protect the on-site workers and civilians should be used including the use of cones and traffic vests as appropriate.

3.4 Biological Hazards

During the course of the project, there is a potential for workers to come into contact with biological hazards such as animals and insects. As the potential for exposure to blood borne pathogens during site investigation is anticipated to be low, a Blood Borne Pathogen Exposure Plan (BBPEP) is not required. A BBPEP will be prepared if site operation requires its implementation.

3.4.1 Animals

During site operations, animals such as dogs, cats, pigeons, mice, and rats may be encountered. Workers shall use discretion and avoid all contact with animals. Bites and scratches from dogs and cats can be painful and if the animal is rabid, the potential for contracting rabies exists. Contact with rat and mice droppings may lead to contracting hantavirus. Inhalation of dried pigeon droppings may lead to psittacosis. Cryptococcosis and histoplasmosis are also diseases associated with exposure to dried bird droppings but these are less likely to occur in this occupational setting.

3.4.2 Insects

Insects, including bees, wasps, hornets, mosquitoes, spiders, and ticks may be present at the site. Some individuals may have a severe allergic reaction to an insect bite or sting that can result in a life threatening condition. In addition, mosquito bites may lead to St. Louis encephalitis or West Nile encephalitis.

3.4.3 Wound Care

A source of occupational exposure may occur when an employee gives First Aid and or CPR to an individual who had infectious blood. The occupational exposure occurs when there is the possibility for an

employee's eyes, mucous membranes, non-intact skin (i.e., cut and abraded skin) to come into contact with potentially infectious materials from another employee. If an accident were to occur where First Aid would need to be administered, the person administering the First Aid will presume that any wounds and materials used are contaminated with BBP and should wear the appropriate PPE to prevent contact with these materials. Additionally, should the use of First Aid materials and or clothing that was potentially contaminated with BBP be encountered these materials should be property containerized and transported to the nearest hospital for proper disposal.

3.5 Coronavirus

General Preventative Measures

Field personnel must follow general proper hygiene measures while in the field including:

- Avoid touching eyes, nose and mouth.
- Cover cough or sneeze with tissue, and throw in trash.
- Wash hands often with soap and water for 20 seconds after going to bathroom, before eating, after blowing nose, coughing or sneezing.
- Use hand sanitizer with at least 60% alcohol if soap and water are not available.
- Avoid physical contact with other people (e.g., no handshakes).
- Maintain a safe distance of at least 6 feet from other people (social distancing).
- Wear face coverings when around other worker to minimize spread of COVID-19. (May be required in certain states or locations.)

Construction Trailers

Employees should avoid use of shared construction trailers or where employees cannot maintain a safe distance (minimum 6 feet) from other workers. If trailer use is needed, areas such as desks, phones, chairs and other common areas, should be cleaned and disinfected before and after use. Protocols should be developed to minimize trailer use to essential personal, restrict use from any workers who are ill or showing symptoms of being ill, use if face coverings and ensure a safe distance of 6 feet can be established between workers.

Communication

Include Coronavirus topics and prevention topics in daily tailgate meetings to ensure Coronavirus awareness is communicated daily. Discussions can focus on general topics including: social distancing, prevention measures for field personnel, signs and symptoms and recent news on the Coronavirus. Site-specific topics should include minimizing face-to-face contact, disinfecting/sterilizing field equipment, use of PPE to reduce exposure, site security, use of face coverings and other potential exposure issues/concerns.

Sick/Ill Workers

No Langan employee is permitted to be onsite when ill and/or showing potential symptoms of the Coronavirus. Symptoms of the Coronavirus may appear 2-14 days after exposure and can range from mild to severe. The most common symptoms include: fever, fatigue, dry cough, shortness of breath chills, repeated shaking with chills, muscle pain, headache, sore throat, or new loss of taste or smell. If an employee or subcontractor is observed being ill or exhibiting symptoms of Coronavirus, employees must immediately utilize their Stop Work Authority and contact their project manager to address the situation. If an employee observes another worker onsite exhibiting symptoms of Coronavirus, immediately utilize Stop Work Authority and notify their project manager and site construction manager or safety officer. Work should resume when the safety and health of Langan and subcontractors is adequately addressed.

3.6 Task Hazard Analysis

The tasks to be completed during the proposed site work activities, as summarized in Section 1.3, are listed in Table 3 with a Hazard Analysis for each task.

3.6.1 Soil Boring Installation

Special attention shall be given to establishing the location of any underground utilities prior to boring or drilling. Prior to beginning the site investigation work, the N.Y. One Call Center will be contacted by the boring/drilling contractor for utility mark-outs. Additionally, a private utility clearance subcontractor has been retained to complete a geophysical survey in the vicinity of each boring location to identify the potential presence of underground utility lines and to evaluate for the presence of

USTs and any other subsurface anomalies. Pressure safety valves and hose whip prevention devices will be installed and operational on any air compressors, hoses, and their tools to be used on site. Additionally, all appropriate and current FDNY Certificates of Fitness (C of F) cards must be on site for those workers using equipment where C of Fs are required.

Chemical exposure may also occur as excavation cuttings are handled, and soil and groundwater samples are collected. Activities will be conducted in Level D, but personnel should be prepared to upgrade to Level C, as appropriate, based on field screening criteria.

If evidence of historic contamination is encountered during test borings other than what is part of the intended investigation, installation or drilling, work will be stopped and emergency contacts listed in Attachment E of this HASP will be immediately notified.

3.6.2 Soil Sample Collection

Chemical exposure may occur as soil samples are collected. Activities will be conducted in Level D, but personnel should be prepared to upgrade to Level C, as appropriate, based on field screening criteria.

If evidence of historic contamination is encountered during test borings other than what is part of the intended investigation, installation or drilling, work will be stopped and emergency contacts listed in Attachment D of this HASP will be immediately notified.

3.6.3 Permanent Monitoring Well and Temporary Soil Vapor Point Installation

Permanent monitoring wells and temporary soil vapor points will be installed for the collection of groundwater and soil vapor samples, respectively. Special attention shall be given to establishing the location of any underground utilities prior to boring or drilling. Prior to beginning the site investigation work, the N.Y. One Call Center will be contacted by the boring/drilling contractor for utility mark-outs. Additionally, a private utility clearance subcontractor has been retained to complete a geophysical survey in the vicinity of each location to identify the potential presence of underground utility lines and to evaluate for the presence of USTS and nay

other subsurface anomalies. Pressure safety valves and hose whip prevention devices will be installed and operational on any air compressors, hoses, and their tools to be used on site.

Chemical exposure may also occur permanent monitoring wells and temporary soil vapor points are installed. Activities will be conducted in Level D, but personnel should be prepared to upgrade to Level C, as appropriate, based on field screening criteria.

If evidence of historic contamination is encountered during permanent monitoring wells and temporary soil vapor points installation other than what is part of the intended investigation, installation or drilling, work will be stopped and emergency contacts listed in Attachment D of this HASP will be immediately notified.

3.6.4 Groundwater and Soil Vapor Sample Collection

Chemical exposure may occur as groundwater and soil vapor samples are collected. Activities will be conducted in Level D, but personnel should be prepared to upgrade to Level C, as appropriate, based on field screening criteria.

If evidence of historic contamination is encountered during sample collection other than what is part of the intended investigation, installation or drilling, work will be stopped and emergency contacts listed in Attachment D of this HASP will be immediately notified.

3.6.5 Test Pit Excavation

Special attention shall be given to establishing the location of any underground utilities prior to the test pit excavation. Prior to beginning the site investigation work, the N.Y. One Call Center will be contacted by the excavation contractor for utility mark-outs. Pressure safety valves and hose whip prevention devices will be installed and operational on any air compressors, hoses, and their tools to be used on site. Additionally, all appropriate and current FDNY Certificates of Fitness (C of F) cards must be on site for those workers using equipment where C of Fs are required.

Chemical exposure may occur as soil is excavated and examined. Activities will be conducted in Level D, but personnel should be prepared to upgrade to Level C, as appropriate, based on field screening criteria.

If evidence of historic contamination is encountered during test pit excavation other than what is part of the intended investigation, work will be stopped and emergency contacts listed in Attachment D of this HASP will be immediately notified.

4.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

4.1 Levels of Protection

PPE must protect workers from the specific hazards they are likely to encounter on site. Selection of the appropriate PPE must take into consideration: (1) identification of the hazards or suspected hazards; (2) potential exposure routes; and, (3) the performance of the PPE construction (materials and seams) in providing a barrier to these hazards. Based on anticipated site conditions and the proposed work activities to be performed at the site, Level D Protection will be used for work completed within the defined exclusion zone. This will include any work within the defined drilling areas. Level D Protection will be required for all personnel working outside the investigation area but engaged with investigation activities. The upgrading/downgrading of these levels of protection will be based on continuous air monitoring results as described in Section 5.0. The decision to modify standard PPE will be made by the HSO after conferring with the Project Manager. The levels of protection are described below.

- **Level D Protection**

  a. Safety glasses w/ sideshields or chemical splash goggles
  b. Safety boots/shoes (toe-protected)
  c. Hard hat
  d. Long sleeve work shirt and work pants
  e. Nitrile gloves
  f. Hearing protection (as needed)
  g. Reflective traffic vest

- **Level D Protection (Modified)**

  a. Safety glasses w/ sideshields or chemical splash goggles
  b. Safety boots/shoes (toe-protected)
  c. Disposable chemical-resistant boot covers
  d. Coveralls Tyvek or equivalent to be worn when contact with contaminated soil or groundwater, or non-aqueous phase liquids is anticipated)
  e. Hard hat
  f. Long sleeve work shirt and work pants
  g. Nitrile gloves
  h. Hearing protection (as needed)
  i. Reflective traffic vest

- **Level C Protection**

  a. Full face-piece, air-purifying, cartridge*-equipped, NIOSH-approved respirator [*combo cartridge P100/OV/CL/HC/SD/CD/HS (escape)]
  b. Inner (latex) and outer (nitrile) chemical-resistant glove
  c. Chemical-resistant safety boots/shoes (toe-protected)
  d. Disposable chemical-resistant boot covers
  e. Hard hat
  f. Long sleeve work shirt and work pants
  g. Coveralls (Tyvek or equivalent, poly-coated Tyvek will be worn when contact, or anticipated contact with wet contaminated soils, ground water, and/or non-aqueous phase liquids (NAPL) is anticipated)
  h. Hearing protection (as needed)
  i. Reflective traffic vest

The action levels used in determining the necessary levels of respiratory protection and upgrading to Level C are summarized in Table 4. The written Respiratory Protection Program is maintained by Langan's H&S Department in Langan's Doylestown, Pennsylvania office. The monitoring procedures and equipment are outlined in Section 5.0.

4.2 Respirator Fit-Test

All Langan employees and subcontractors performing site work who could be exposed to hazardous substances at the work site are in possession of a full face-piece, air-purifying respirator and have been successfully quantitative fit-tested within the past year. Quantitative fit-test records are maintained by Langan's H&S Department.

4.3 Respirator Cartridge Change-Out Schedule

Respiratory protection is required to be worn when certain action levels (Table 2) are reached. A respirator cartridge change-out schedule has been developed in order to comply with 29 CFR 1910.134. The respirator cartridge change-out schedule for this project is as follows:

- Cartridges shall be removed and disposed of at the end of each shift, when cartridges become wet or wearer experiences breakthrough, whichever occurs first.
- If the humidity exceeds 85%, then cartridges shall be removed and disposed of after 4 hours of use.

Respirators shall not be stored at the end of the shift with contaminated cartridges left on. Cartridges shall not be worn on the second day, no matter how short the time period was the previous day they were used.

5.0 AIR QUALITY MONITORING AND ACTIONS LEVELS

5.1 Monitoring During Site Operations

Atmospheric air monitoring results are used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments there are Site-specific action level criteria which are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions. Therefore, the HSO may establish an exclusion zone or require a person to wear a

respirator even though atmospheric air contaminant concentrations are below established HASP action levels.

During site work involving disturbance of impacted soils, real time air monitoring will be conducted for VOCs and dust. A photoionization detector (PID) will be used to monitor concentrations of VOCs at personnel breathing-zone height. Dust monitoring will be accomplished with an aerosol monitor. Air monitoring will be the responsibility of the HSO or designee. Air monitoring will be conducted approximately every 30 minutes during ground intrusive activities associated with the completion of soil borings, collection of soil samples, and installation of permanent monitoring wells and temporary soil vapor sampling points. All manufacturers' instructions for instrumentation and calibration will be available onsite.

Subcontractors' air monitoring plans must be equal or more stringent as the Langan plan.

Air monitoring operations, referred to as the Community Air Monitoring Program (CAMP), will comply with NYSDEC DER-10 Appendix 1A and Appendix 1B, included as Attachment H. Additional special requirements for work within 20 feet of potentially exposed individuals or structures are included as Attachment I.

An air monitoring calibration log is provided in Attachment D of this CHASP.

5.1.1 Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 3000 (10.6v) or equivalent will occur during investigation activities within the work zone and at the downwind perimeter of the work zone. Colormetric Indicator Tubes for benzene may be used as backup for the PID, if measurements remain above background monitor every 2 hours. The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, appearance of drill cuttings, etc.) since the last measurement. Instrument action levels for monitored gases are provided in Table 4.

5.1.2 Dust

As historic urban fill is present in the subsurface, the soil at the site is potentially impacted with common historic fill contaminants including SVOCs, PCBs, pesticides, and metals. During invasive procedures which have the potential for creating airborne dust, such as drilling of dry soils, a real time airborne dust monitor such as a Mini-Ram should be used to monitor for air particulates. The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 mg/m3 or visible dust is observed for longer than 15 minutes or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided in Table 4.

5.1.3 Determination of Background Levels

Background (BKD) levels for VOCs and dust will be established prior to intrusive activities within the work zone. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the Langan Health and Safety Officer.

5.2 Monitoring Equipment Calibration and Maintenance

Instrument calibration shall be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments shall be calibrated before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

All instruments shall be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on site by the HSO for reference.

5.3 Noise Monitoring

As a standard work practice, hearing protection will be worn within the area that exceeds 85 dBA created by any loud machinery as a precaution. Work areas or tasks which pose an exposure risk greater than 85 dBA will require hearing protection. Hearing protection is required and should be used in the exclusion zone while the drill rig is operating.

6.0 COMMUNITY HEALTH AND SAFETY CONSIDERATIONS

The potential impact of site work activities on the surrounding community (residential and business) is of concern. Precautions taken to reduce or prevent contamination from leaving the work areas include the following:

- All appropriate equipment will be decontaminated before leaving the Site;
- Work zone air monitoring will be conducted by Langan;
- Dust and vapor suppression techniques will be used as necessary;
- Downwind air monitoring for volatile organic compounds and dust will be done at the areas of concern perimeter every 30 minutes whenever site personnel are required to wear Level C respiratory protection as per this HASP; and,
- Work will be suspended at any time that contaminants are found to be migrating off-site at a concentration that exceeds the most stringent compound-specific action level as per this HASP.

7.0 WORK ZONES AND DECONTAMINATION

7.1 Site Control

Work zones are intended to control the potential spread of contamination throughout the site and to assure that only authorized individuals are permitted into potentially hazardous areas.

Any person working in an area where the potential for exposure to site contaminants exists will only be allowed access after providing the HSO with proper training and medical documentation.

Exclusion Zone (EZ) - All activities which may involve exposure to site contaminants, hazardous materials and/or conditions should be considered an EZ. Decontamination of field equipment will also be conducted in the Contaminant Reduction Zone (CRZ) which will be located on the perimeter of the EZ. The EZ

and the CRZ will be clearly delineated by cones, tapes or other means. The Langan Health and Safety Officer may establish more than one EZ where different levels of protection may be employed or different hazards exist. The size of the EZ shall be determined by the Langan Health and Safety Officer allowing adequate space for the activity to be completed, field members and emergency equipment. For purposes of this HASP the exclusion zones are defined by a 10-foot buffer around each soil boring and temporary monitoring well location but may be expanded based on the results of air monitoring or any other field conditions identified by the HSO. All personnel working in the EZ must have 40 hours HAZWOPER training and be enrolled in a medical monitoring program prior to conducting any site activities.

7.2 Contamination Control

7.2.1 Personnel Decontamination Station

Personal hygiene, coupled with diligent decontamination, will significantly reduce the potential for exposure.

7.2.2 Minimization of Contact with Contaminants

During completion of all site activities, personnel should attempt to minimize the chance of contact with contaminated materials. This involves a conscientious effort to keep "clean" during site activities. All personnel should minimize kneeling, splash generation, and other physical contact with contamination as PPE is intended to minimize accidental contact. This may ultimately minimize the degree of decontamination required and the generation of waste materials from site operations.

Field procedures will be developed to control over spray and runoff and to ensure that unprotected personnel working nearby are not affected.

7.2.3 Personnel Decontamination Sequence

Decontamination will be performed by removing all PPE used in EZ and placing it in drums/trash cans at the CRZ. Baby wipes shall be available for wiping hands and face. Drums/trash cans will be labeled by the field crews in accordance with all local, state, and federal requirements. Management

plans for contaminated PPE, tools and investigative-derived waste (i.e., soil cutting) are provided below.

7.2.4 Emergency Decontamination

If circumstances dictate that contaminated clothing cannot be readily removed, then remove gross contamination and wrap injured personnel with clean garments/blankets to avoid contaminating other personnel or transporting equipment.

If the injured person can be moved, he/she will be decontaminated by site personnel as described above before emergency responders handle the victim. If the person cannot be moved because of the extent of the injury (a back or neck injury), provisions shall be made to ensure that emergency response personnel will be able to respond to the victim without being exposed to potentially hazardous atmospheric conditions. If the potential for inhalation hazards exist, such as with open excavation, this area will be covered with polyethylene sheeting to eliminate any potential inhalation hazards. All emergency personnel are to be immediately informed of the injured person's condition, potential contaminants, and provided with all pertinent data.

7.2.5 Hand-Held Equipment Decontamination

Hand-held equipment includes all monitoring instruments as stated earlier, samples, hand tools, and notebooks. The hand-held equipment is dropped at the first decontamination station to be decontaminated by one of the decontamination team members. These items must be decontaminated or discarded as waste prior to removal from the CRZ.

To aid in decontamination, monitoring instruments can be sealed in plastic bags or wrapped in polyethylene. This will also protect the instruments against contaminants. The instruments will be wiped clean using wipes or paper towels if contamination is visually evident. Sampling equipment, hand tools, etc. will be cleaned with non-phosphorous soap to remove any potentially contaminated soil, and rinsed with deionized water. All decontamination fluids will be containerized and stored on-site pending waste characterization sampling and appropriate off-site disposal.

7.2.6 Heavy Equipment Decontamination

All heavy equipment and vehicles arriving at the work site will be free from contamination from offsite sources. Any vehicles arriving to work that are suspected of being impacted will not be permitted on the work site. Potentially contaminated heavy equipment will not be permitted to leave the EZ unless it has been thoroughly decontaminated and visually inspected by the HSO or his designee.

7.3 Communications

The following communications equipment will be utilized as appropriate.

- Telephones - A cellular telephone will be located with the HSO for communication with the HSM and emergency support services/facilities.
- Hand Signals - Hand signals shall be used by field teams, along with the buddy system. The entire field team shall know them before operations commence and their use covered during site-specific training. Typical hand signals are the following:

Signal	Meaning
Hand gripping throat	Out of air, can't breathe
Grip on partner's wrist or placement of both hands around partner's waist	Leave area immediately, no debate
Hands on top of head	Need assistance
Thumbs up	Okay, I'm all right, I understand
Thumbs down	No, negative

8.0 MEDICAL SURVEILLANCE

All personnel who will be performing field work involving potential exposure to toxic and hazardous substances will be required to have passed an initial baseline medical examination, with annual follow-up medical exams thereafter, consistent with 29 CFR 1910.120(f). Medical evaluations will be performed by, or under the direction of, a physician board-certified in occupational medicine. Results of medical evaluations are maintained by Langan's H&S Department.

9.0 EMERGENCY RESPONSE PLAN

This section establishes procedures and provides information for use during a project emergency. Emergencies happen unexpectedly and quickly, and require an immediate response; therefore, contingency planning and advanced training of staff is essential. Specific elements of emergency support procedures that are addressed in the following subsections include communications, local emergency support units, preparation for medical emergencies, first aid for injuries incurred on site, record keeping, and emergency site evacuation procedures. In case of emergency, in addition to 911 the Langan Incident/Injury Hotline (973-560-4699) should be called as soon as possible.

9.1 Responsibilities

9.1.1 Langan Health and Safety Officer (HSO)

The HSO is responsible for ensuring that all personnel are evacuated safely and that machinery and processes are shut down or stabilized in the event of a stop work order or evacuation. The HSO is responsible for ensuring the HSM are notified of all incidents, all injuries, near misses, fires, spills, releases or equipment damage. The HSO is required to immediately notify the HSM of any fatalities or catastrophes (three or more workers injured and hospitalized) so that the HSM can notify OSHA within the required time frame.

9.1.2 Emergency Coordinator

For this project the Emergency Coordinator is the HSO.

The Emergency Coordinator shall locate emergency phone numbers and identify hospital routes prior *to beginning* work on the sites. The Emergency Coordinator shall make necessary arrangements to be prepared for any emergencies that could occur.

The Emergency Coordinator is responsible for implementing the Emergency Response/ Contingency Plan whenever conditions resulting from the Site Investigation warrant such action.

9.1.3 Site Personnel

Project site personnel are responsible for knowing the Emergency Response Plan and the procedures contained herein. Personnel are expected to notify the Emergency Coordinator of situations that could constitute a site emergency. Project site personnel, including all subcontractors will be trained in the Emergency Response Plan.

9.2 Communications

Once an emergency situation has been stabilized or as soon as practically possible, the HSO will contact the Langan Incident/Injury Hotline (973-560-4699) and Project Manager to identify any emergency situation.

9.3 Local Emergency Support Units

In order to be able to deal with any emergency that might occur during investigative activities at the site, Attachment E Emergency Notification Numbers, will be available in the field vehicles and provided to all personnel conducting work within the EZ.

Figure 2 is the hospital route map. Outside emergency number 911 and local ambulance should be relied on for response to medical emergencies and transport to emergency rooms. Due to traffic congestion that is prevalent in the New York metropolitan area, alternate hospital routes will need to be considered. The Emergency Coordinator will determine the appropriate route based on time of day and traffic patterns. Changes in the referenced primary facilities shall be documented with the HASP Field Change Authorization Request Form (Attachment B).

The Emergency Phone Numbers listed are preliminary. Upon mobilization, the HSO shall verify all numbers and document the changes in the Site Logbook. Any changes shall also be documented with the HASP Field Change Authorization Request Form.

Hospital route maps will be provided to all field personnel.

9.4 Pre-Emergency Planning

Langan will communicate directly with administrative personnel from the emergency room at the hospital in order to determine whether the hospital has the facilities and personnel needed to treat cases of trauma resulting from any of the contaminants expected to be found on the site. Instructions for finding the hospital will be posted conspicuously in the site office and in each site vehicle.

9.5 Emergency Medical Treatment

The procedures and rules in this HASP are designed to prevent employee injury. However, should an injury occur, no matter how slight, it will be reported to the HSO on site immediately. First-aid equipment will be available on site at the following locations:

First Aid Kit:	Vehicles
Emergency Eye Wash:	Vehicles

During the site safety briefing, project personnel will be informed of the location of the first aid station(s) that has been set up. Unless they are in immediate danger, severely injured persons will not be moved until paramedics can attend to them. Some injuries, such as severe cuts and lacerations or burns, may require immediate treatment. Any first aid instructions that can be obtained from doctors or paramedics, before an emergency-response squad arrives at the site or before the injured person can be transported to the hospital, will be followed closely.

Personnel with current first aid and CPR certification will be identified.

Only in non-emergency situations will an injured person be transported to the hospital by means other than an ambulance.

Nearest hospital: **Emergency Room at The Brooklyn Hospital Center**
121 Dekalb Avenue
Brooklyn, NY 11201
(718) 250-8000
(directions from site to hospital found on Figure 2)

9.6 Non-Emergency Medical Treatment

In case of injury to personnel, which is not a medical emergency the employee will contact WorkCare at (1-888-449-7787). WorkCare provides access 24 hours / 7 days a week to experienced occupational health nurses and physicians who confer with employees at the onset of a work-related injury or illness. WorkCare will provide over the phone injury treatment or direct employees to medical treatment by third party provider, if appropriate.

9.7 Emergency Site Evacuation Routes and Procedures

All project personnel will be instructed on proper emergency response procedures and locations of emergency telephone numbers during the initial site safety meeting. If an emergency occurs as a result of the site investigation activities, including but not limited to fire, explosion or significant release of toxic gas into the atmosphere, the Langan Project Manager will be verbally notified immediately. All heavy equipment will be shut down and all personnel will evacuate the work areas and assemble at the nearest intersection to be accounted for and to receive further instructions.

9.8 Fire Prevention and Protection

In the event of a fire or explosion, procedures will include immediately evacuating the site and notification of the Langan Project Manager of the investigation activities. Portable fire extinguishers will be provided at the work zone. The extinguishers located in the various locations should also be identified prior to the start of work. No personnel will fight a fire beyond the stage where it can be put out with a portable extinguisher (incipient stage).

9.8.1 Fire Prevention

Fires will be prevented by adhering to the following precautions:

- Good housekeeping and storage of materials.
- Storage of flammable liquids and gases away from oxidizers.
- Shutting off engines to refuel.
- Grounding and bonding metal containers during transfer of flammable liquids.

- Use of UL approved flammable storage cans.
- Fire extinguishers rated at least 10 pounds ABC located on all heavy equipment, in all trailers and near all hot work activities.

The person responsible for the control of fuel source hazards and the maintenance of fire prevention and/or control equipment is the HSO.

9.9 Significant Vapor Release

Based on the proposed tasks, the potential for a significant vapor is low. However, if a release occurs, the following steps will be taken:

- Move all personnel to an upwind location. All non-essential personnel shall evacuate.
- Upgrade to Level C Respiratory Protection.
- Downwind perimeter locations shall be monitored for volatile organics..
- If the release poses a potential threat to human health or the environment in the community, the Emergency Coordinator shall notify the Langan Project Manager.
- Local emergency response coordinators will be notified.

9.10 Overt Chemical Exposure

The following are standard procedures to treat chemical exposures. Other, specific procedures detailed on the Safety Data Sheet (SDS) will be followed, when necessary.

SKIN AND EYE: Use copious amounts of soap and water from eye-wash kits and portable hand wash stations.

CONTACT: Wash/rinse affected areas thoroughly, then provide appropriate medical attention. Skin shall also be rinsed for 15 minutes if contact with caustics, acids or hydrogen peroxide occurs. Affected items of clothing shall also be removed from contact with skin.

Providing wash water and soap will be the responsibility of each individual contractor or subcontractor on-site.

9.11 Decontamination During Medical Emergencies

If emergency life-saving first aid and/or medical treatment is required, normal decontamination procedures may need to be abbreviated or omitted. The HSO or designee will accompany contaminated victims to the medical facility to advise on matters involving decontamination when necessary. The outer garments can be removed if they do not cause delays, interfere with treatment or aggravate the problem. Respiratory equipment must always be removed. Protective clothing can be cut away. If the outer contaminated garments cannot be safely removed on site, a plastic barrier placed between the injured individual and clean surfaces should be used to help prevent contamination of the inside of ambulances and/or medical personnel. Outer garments may then be removed at the medical facility. No attempt will be made to wash or rinse the victim if his/her injuries are life threatening, unless it is known that the individual has been contaminated with an extremely toxic or corrosive material which could also cause severe injury or loss of life to emergency response personnel. For minor medical problems or injuries, the normal decontamination procedures will be followed.

9.12 Incident Reporting

Once first aid and/or emergency response needs have been met, the following parties are to be contacted:

- WorkCare (1-888-449-7787)
- Langan Incident/Injury Report Hotline (973-560-4699)
- Langan Project Manager, Christopher McMahon (973-560-4861) or Steve Ciambruschini (973-560-4982)
- Langan Health and Safety Manager, Tony Moffa (215-491-6500)
- The employer of any injured worker who is not a Langan employee

For emergencies involving personal injury and/or exposure including near-misses, the HSO or designee will complete and submit an Accident/Incident Report Form (Attachment F) within 24 hours. If the employee involved is not a Langan employee, his employer shall receive a copy of the report.

9.13 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work will continue without potentially risking the safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries.
- Potential for cold stress and cold-related injuries.
- Treacherous weather-related working conditions (hail, rain, snow, ice, high winds).
- Limited visibility (fog).
- Potential for electrical storms.
- Earthquakes.
- Other major incidents.

Site activities will be limited to daylight hours, or when suitable artificial light is provided, and acceptable weather conditions prevail. The HSO will determine the need to cease field operations or observe daily weather reports and evacuate, if necessary, in case of severe inclement weather conditions.

9.14 Spill Control and Response

All small spills/environmental releases shall be contained as close to the source as possible. Whenever possible, the SDS will be consulted to assist in determining proper waste characterization and the best means of containment and cleanup. For small spills, sorbent materials such as sand, sawdust or commercial sorbents should be placed directly on the substance to contain the spill and aid recovery. Any acid spills should be diluted or neutralized carefully prior to attempting recovery. Berms of earthen or sorbent materials can be used to contain the leading edge of the spills. All spill containment materials will be properly disposed. An exclusion zone of 50 to 100 feet around the spill area should be established depending on the size of the spill.

All contractor vehicles shall have spill kits on them with enough material to contain and absorb the worst-case spill from that vehicle. All vehicles and equipment shall be inspected prior to be admitted on site. Any vehicle or piece of equipment that develops a leak will be taken out of service and removed from the job site.

The following seven steps shall be taken by the Emergency Coordinator:

1. Determine the nature, identity and amounts of major spills.
2. Make sure all unnecessary persons are removed from the spill area.
3. Notify the HSO immediately.
4. Use proper PPE in consultation with the HSO.
5. If a flammable liquid, gas or vapor is involved, remove all ignition sources and use non-sparking and/or explosion-proof equipment to contain or clean up the spill (diesel-only vehicles, air-operated pumps, etc.)
6. If possible, try to stop the leak with appropriate material.
7. Remove all surrounding materials that can react or compound with the spill.

In addition to the spill control and response procedures described in this HASP, Langan personnel will coordinate with the designated project manager relative to spill response and control actions. Notification to the Project Manager must be immediate and, to the extent possible, include the following information:

- Time and location of the spill.
- Type and nature of the material spilled.
- Amount spilled.
- Whether the spill has affected or has a potential to affect a waterway or sewer.
- A brief description of affected areas/equipment.
- Whether the spill has been contained.
- Expected time of cleanup completion. If spill cleanup cannot be handled by Langan's on-site personnel alone, such fact must be conveyed to the Project Manager immediately.

Langan shall not make any notification of spills to outside agencies. The client will notify regulatory agencies as per their reporting procedures.

9.15 Emergency Equipment

The following minimum emergency equipment shall be kept and maintained on site:

- Industrial first aid kit.
- Fire extinguishers (one per site).
- Absorbent material.

9.16 Restoration and Salvage

After an emergency, prompt restoration of utilities, fire protection equipment, medical supplies and other equipment will reduce the possibility of further losses. Some of the items that may need to be addressed are:

- Refilling fire extinguishers.
- Refilling medical supplies.
- Recharging eyewashes and/or showers.
- Replenishing spill control supplies.

10.0 TRAINING

10.1 General Health and Safety Training

Completion of an initial 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training program (or its equivalent) as detailed in OSHA's 29 CFR 1910.120(e) is required for all employees who will perform work in areas where the potential for a toxic exposure exists. Annual 8-hour refresher training is also required to maintain competencies to ensure a safe work environment.

10.2 Site Specific Training

Prior to commencement of site activities, all field personnel assigned to the project will have completed training that will specifically address the activities, procedures, monitoring, and equipment used in the site operations. It will include a documented verbal review of the entire HASP and all the provisions within the HASP document. Should any new employees arrive on-site, they will also be given

a documented full HASP review – or one that address the appropriate tasks that remain at the time of the new employee's arrival.

10.3 Onsite Safety Briefings

Project personnel and visitors will participate in documented daily on-site health and safety briefings ("Tailgate Talks") led by the HSO to assist site personnel in safely conducting their work activities. The briefings will include information on operations to be conducted that shift, changes in work practices or changes in the site's environmental conditions, as well as periodic reinforcement of previously discussed topics. The briefings will also provide a forum to facilitate conformance with safety requirements and to identify performance deficiencies related to safety during daily activities or as a result of safety inspections. The meetings will also be an opportunity for the work crews to be updated on monitoring results. Prior to starting any new activity, a training session will be held for crew members involved in the activity. The Health and Safety Briefing Statement (Attachment A) can be used to facilitate this effort.

10.4 Hazard Communication

All material brought on-site will be in the appropriate containers and will be properly labeled. The SDS for chlordane and contaminants typically associated with historic fill are attached. Langan's written Hazard Communication program, in compliance with 29 CFR 1910.1200, is maintained by Langan's H&S Department.

11.0 RECORDKEEPING

The following is a summary of required health and safety logs, reports and recordkeeping.

11.1 Field Change Authorization Request

A Field Procedures Change Authorization Request Form is to be completed for requesting a change to this HASP (Attachment B). Any changes to the work to be performed that is not included in the HASP will require an Addendum that is approved by the Langan Project Manager and Langan HSM to be prepared. Approved changes will be reviewed with all field personnel at a safety briefing.

11.2 Medical and Training Records

Copies or verification of training (40-hour, 8-hour, supervisor, site-specific training, documentation of three-day OJT, and respirator fit-test records) and medical clearance for Site work and respirator use will be maintained in the office and available upon request. Records for all subcontractor employees must also be available upon request. All employee medical records will be maintained by Langan's H&S Department.

11.3 Onsite Log

A log of personnel on site each day will be kept by the Site Supervisor or designee.

11.4 Daily Safety Meetings ("Tailgate Talks")

Completed Safety Briefing forms will be maintained by the HSO.

11.5 Exposure Records

All personal monitoring results, laboratory reports, calculations and air sampling data sheets are part of an employee exposure record. These records will be maintained by the HSO during site work. At the end of the project they will be maintained according to 29 CFR 1910.1020.

11.6 Hazard Communication Program/SDS

Safety Data Sheets (SDS) have been obtained for applicable substances and are included in this HASP (Attachment H). Langan's written Hazard Communication program, in compliance with 29 CFR 1910.1200, is maintained by Langan's H&S Department.

11.7 Documentation

Employees are required to contact WorkCare at (1-888-449-7787) to document incidents/injuries which are not medical emergencies. Immediately following an incident or near miss, unless emergency medical treatment is required, either the employee or a coworker must contact the Langan Incident/Injury Hotline at (973)560-4699 and the client representative to report the incident or near miss. A written report must be completed and submitted to the client representative within 24 hours of the incident. For emergencies involving personnel injury and/or

exposure, employee will complete and submit the Langan Incident/Injury Report to the Langan Corporate Health and Safety Manager as soon as possible following the incident. Accidents will be investigated in-depth to identify all causes and to recommend hazard control measures.

12.0 FIELD PERSONNEL REVIEW

This form serves as documentation that field personnel have been verbally given a full HASP review by Langan personnel, and understand the provisions of this EHS Plan. It is maintained on site by the HSO as a project record.

Each field team member shall sign this section after Site-specific training is completed and before being permitted to work onsite.

Name (Print and Sign)	***Company***	***Date***

TABLES

TABLE 1
SUSPECTED CONTAMINANTS OF CONCERN
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Contaminant of Concern	Affected Media
VOLATILES	
Benzene	Soil / Groundwater / Soil Vapor
Toluene	Soil / Groundwater / Soil Vapor
Ethylethylene	Soil / Groundwater / Soil Vapor
Xylenes (m,p-Xylene, and o-Xylene)	Soil / Groundwater / Soil Vapor
Chloroform	Groundwater
Napthalene	Soil / Groundwater
Tetrachlorethylene	Soil / Groundwater / Soil Vapor
Trichloroethylene	Soil / Groundwater / Soil Vapor
Chlorinated VOCs	Soil / Groundwater / Soil Vapor
Total Volatiles	Soil / Groundwater / Soil Vapor
SEMI-VOLATILES	
Anthracene	Soil
Benzo(a)anthracene	Soil / Groundwater
Benzo(b)flouranthene	Soil / Groundwater
Benzo(g,h,i)perylene	Soil
Benzo(k)flouranthene	Soil / Groundwater
Benzo(a)pyrene	Soil / Groundwater
Chrysene	Soil / Groundwater
Dibenzo(a,h)anthracene	Soil / Groundwater
Dibenzofuran	Soil
Indeno (1,2,3-cd) pyrene	Soil / Groundwater
Flouranthene	Soil / Groundwater
Phenanthrene	Soil
Pyrene	Soil / Groundwater
Diesel Fuel / Fuel Oils	Soil / Groundwater
Hydraulic Oil	Soil / Groundwater
Miscellaneous TBD	Soil / Groundwater
METALS	
Lead	Soil / Groundwater
Arsenic	Soil / Groundwater
Barium	Soil
Chromium	Soil / Groundwater
Mercury	Soil / Groundwater
Copper	Soil / Groundwater
Nickel	Soil / Groundwater

TABLE 2
SELECTED POTENTIAL CHEMICAL EXPOSURE LIMITS AND HEALTH EFFECTS
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Chemical	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Benzene	1 ppm	50 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritate eyes, skin, nose; respiratory system; giddiness; head, nausea, staggered gait; fatigue, anorexia, lassitude; dermatitis; bone marrow depression; [carcinogenic]
Toluene	200 ppm	500 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritate eyes, nose; fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, lacrimation; nervousness, muscle fatigue, insomnia; paresthesia; dermatitis; liver, kidney damage; mucous membrane; narcosis, coma
Ethylbenzene	100 ppm	800 ppm (10% LEL)	Inhalation, Ingestion, skin and/or eye contact	Irritate eyes, skin, mucous membrane; headache, dermatitis; narcosis, coma
Xylenes	100 ppm	900 ppm	Inhalation, Skin absorption, Ingestion, skin and/or eye contact	Irritate eyes, skin, nose, throat; dizziness, excitement, drowsiness, incoordination, staggering gait; corn vacuolization; anorexia, nausea, vomit, abdominal pain; dermatitis
Chloroform	50 ppm	500 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; dizziness, mental dullness, nausea, confusion; headache, lassitude (weakness, exhaustion); anesthesia; enlarged liver; [potential occupational carcinogen]
Napthalene	10 ppm	250 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes; headache, confusion, excitement, malaise (vague feeling of discomfort); nausea, vomiting, abdominal pain; irritation bladder; profuse sweating; jaundice; hematuria (blood in the urine), renal shutdown; dermatitis, optical neuritis, corneal damage

TABLE 2
SELECTED POTENTIAL CHEMICAL EXPOSURE LIMITS AND HEALTH EFFECTS
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Chemical	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Tetrachloroethene	15 ppm	150 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Nausea, vomiting, abdominal pain, tremor fingers, jaundice, hepatitis, liver tenderness, dermatitis, monocytosis, kidney damage [potential occupational carcinogen]
Trichloroethene	100 ppm	1,000 ppm	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; headache, visual disturbance, lassitude (weakness, exhaustion), dizziness, tremor, drowsiness, nausea, vomiting; dermatitis; cardiac arrhythmias, paresthesia; liver injury; [potential occupational carcinogen]
Total Volatile Organics	15 ppm	150 ppm	Inhalation, Skin Absorption, Ingestion	Irritation eyes, skin, nose, throat, respiratory system; nausea; flush face, neck; dizziness, incoordination; headache, drowsiness; skin erythema (skin redness); liver damage; [potential occupational carcinogen]
Anthracene	0.2 mg/m3	80 mg/m3	Inhalation, Skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]
Benzo(a)anthracene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Benzo(b)fluoranthene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Benzo(k)fluoranthene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Benzo(a)pyrene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Chrysene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough

TABLE 2
SELECTED POTENTIAL CHEMICAL EXPOSURE LIMITS AND HEALTH EFFECTS
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Chemical	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Dibenzo(a,h)anthracene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Flouranthene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Phenanthrene	0.2 mg/m3	80 mg/m3	Inhalation, Skin and/or eye contact	Dermatitis, bronchitis, [potential occupational carcinogen]
Indeno (1,2,3-cd) pyrene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Pyrene	0.2 mg/m3	80 mg/m3	Inhalation, Skin Absorption, Ingestion	Irritate eyes, skin, upper respiratory system, cough
Pesticides	1 mg/m3	500 mg/m3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; paresthesia tongue, lips, face; tremor; anxiety, dizziness, confusion, malaise (vague feeling of discomfort), headache, lassitude (weakness, exhaustion); convulsions; paresis hands; vomiting; [potential occupational carcinogen]
Lead	0.05 mg/mg3	100 mg/mg3	Inhalation, Ingestion, Skin and/or Eye Contact	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension
Arsenic	0.010 mg/m3	5 mg/m3	Inhalation, Ingestion, Skin Absorption, Skin and/or Eye Contact	Ulceration of nasal septum, dermatitis, gastrointestinal disturbances, peripheral neuropathy, resp irritation, hyperpigmentation of skin, [potential occupational carcinogen]

TABLE 2
SELECTED POTENTIAL CHEMICAL EXPOSURE LIMITS AND HEALTH EFFECTS
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Chemical	Permissible Exposure Limit	IDLH Limit	Exposure Routes	Exposure Symptoms
Barium	0.5 mg/m3	50 mg/m3	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse, extrasystoles; hypokalemia
Hexavalent Chromium	5 mg/m3	250 mg/m3	Inhalation, Ingestion, Skin and/or Eye Contact	Irritation eyes, skin; lung fibrosis (histologic)
Total Chromium	5 mg/m3	250 mg/m3	Inhalation, Ingestion, Skin and/or Eye Contact	Irritation eyes, skin; lung fibrosis (histologic)
Mercury	0.1 mg/m3	10 mg/m3	Inhalation, Ingestion, Skin Absorption, Skin and/or Eye Contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria
Copper	1 mg/m3	100 mg/m3	Inhalation, Ingestion, skin and/or eye contact	Irritation eyes, respiratory system; cough, dyspnea (breathing difficulty), wheezing; [potential occupational carcinogen]
Nickel	1 mg/m3	10 mg/m3	Inhalation, Skin Absorption, Ingestion, skin and/or eye contact	Irritation eyes, skin; cough, chest pain, dyspnea (breathing difficulty), bronchitis, pneumonitis; tremor, insomnia, irritability, indecision, headache, lassitude (weakness, exhaustion); stomatitis, salivation; gastrointestinal disturbance, anorexia, weight loss; proteinuria

--- No exposure limits listed in the NIOSH Pocket Guide to Chemical Hazards dated November 2010.

TABLE 3
HAZARD ANALYSIS
130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Task	Potential Risk	Description	Control Measure
1, 2, 3, 4, 5, 6	Lifting equipment	Improper lifting/carrying of equipment and materials	Follow safe lifting and general material handling
2, 4, 6	Noise	Loud sounds caused by the machines during drilling, or excavation	Wear proper PPE (hearing protection)
1, 2, 3, 4, 6	Working near heavy machinery	Close proximity to drill rig and/or construction equipment	Be aware of surroundings, wear safety vest and hard hat
1, 2, 3, 4, 5, 6	Slips, trips, and falls	Any number of injuries from slips, trips, and falls in carrying out these tasks	Good housekeeping at site, constant awareness and focus on the task
2, 3, 4, 6	Inhalation of Dust	Breathing in visible dust from earthwork using drills or excavators	Wear proper PPE, monitor air for dust concentrations, use dust suppression techniques
2, 3, 4, 5, 6	Inhalation of Volatiles	Breathing in volatiles from earthwork using drills or excavators causing dust	Wear proper PPE, monitor air for volatile concentrations, use dust suppression techniques
1, 2, 4, 6	Utilities	Hitting utility lines during drilling and or excavating	Use proper mark out of underground utilities before beginning earthwork
2, 3, 4, 5, 6	Skin contact with contaminated material	Material falls on skin; gets in eye	Wear proper PPE; follow safe work practices
2, 3, 4, 5, 6	Ingestion of contaminated material	Material falls on skin; gets into mouth	Wear proper PPE; follow safe work practices
2, 3, 4, 5, 6	Skin and eye contact with contaminated material	Material falls on skin; gets in eye	Wear proper PPE; follow safe work practices
1, 2, 3, 4, 5, 6	Heat Stress	Stress or exhaustion related to high temperatures	Hydrate and rest as needed
1, 2, 3, 4, 5, 6	Cold Stress	Stress or exhaustion related to low temperatures; hypothermia	Wear proper PPE; follow safe work practices
1, 2, 3, 4, 5, 6	Bites and stings	Bee stings, ticks, snake bites	Wear proper PPE, be watchful, follow safe work practices
1, 2, 3, 4, 5, 6	Lacerations and abrasions	Many opportunities working with hand tools	Inspect equipment being used for sharp edges, wear proper PPE; follow safe work practices

\\Langan.com\data\PAR\data3\100842301\Project Data_Discipline\Environmental\Reports\2020-12 - Revised RIWP\Appendix A - HASP\Tables\HASP TABLE 3 - Hazard Analysis.doc

TABLE 4
INSTRUMENTATION ACTION LEVELS
130 Saint Felix Street
Brooklyn, New York

Instrument	Action Level	Level of Protection / Action Required
PID	Background to 5 ppm	Level D/No respirator; no further action required
	> 5 ppm for > 5 minutes	1. Temporarily discontinue all activities and evaluate potential causes of the excessive readings. If these levels persist and cannot be mitigated (i.e., by slowing drilling or excavation activities), contact HSO to review conditions and determine source and appropriate response action. 2. If PID readings remain above 5 ppm, temporarily discontinue work and upgrade to Level C protection. 3. If sustained PID readings fall below 1 ppm, downgrading to Level D protection may be permitted
	> 5 ppm but < 150 ppm for > 5 minutes	Level C/ 1. Discontinue all work; all workers shall move to an area upwind of the jobsite. 2. Evaluate potential causes of the excessive readings and allow work area to vent until VOC concentrations fall below 5 ppm. 3. Level C protection will continue to be used until PID readings fall below 1 ppm.
	> 30 ppm (steady state condition) within AOC zone	Stop Work / Suppress Emissions / Evacuate and re-evaluate.
	> 150 ppm	Evacuate the work area
Total Dust Aerosol Monitor	> 0.100 mg/m³ above BKD (steady state condition) at perimeter of AOC zone for 15-minutes or visible dust.	Stop Work / Implement dust control / Continue dust monitoring if dust levels are less than 150 mg/m3
	< 0.150 mg/m3 above BKD (following dust suppression measures)	Stop Work / implement dust control, continue work once levels are <150 mg/m3
	>5 mg/m³	Level C

Notes:

1. 1 ppm level based on OSHA Permissible Exposure Limit (PEL) for benzene.
2. 5 ppm level based on OSHA Short Term Exposure Limit (STEL) maximum exposure for vinyl chloride for any 15 minute period.
3. 150 ppm level based on NIOSH Immediately Dangerous to Life and Health (IDLH) for tetrachloroethylene

TABLE 5
PERSONAL PROTECTIVE EQUIPMENT
130 Saint Felix Street
Brooklyn, New York

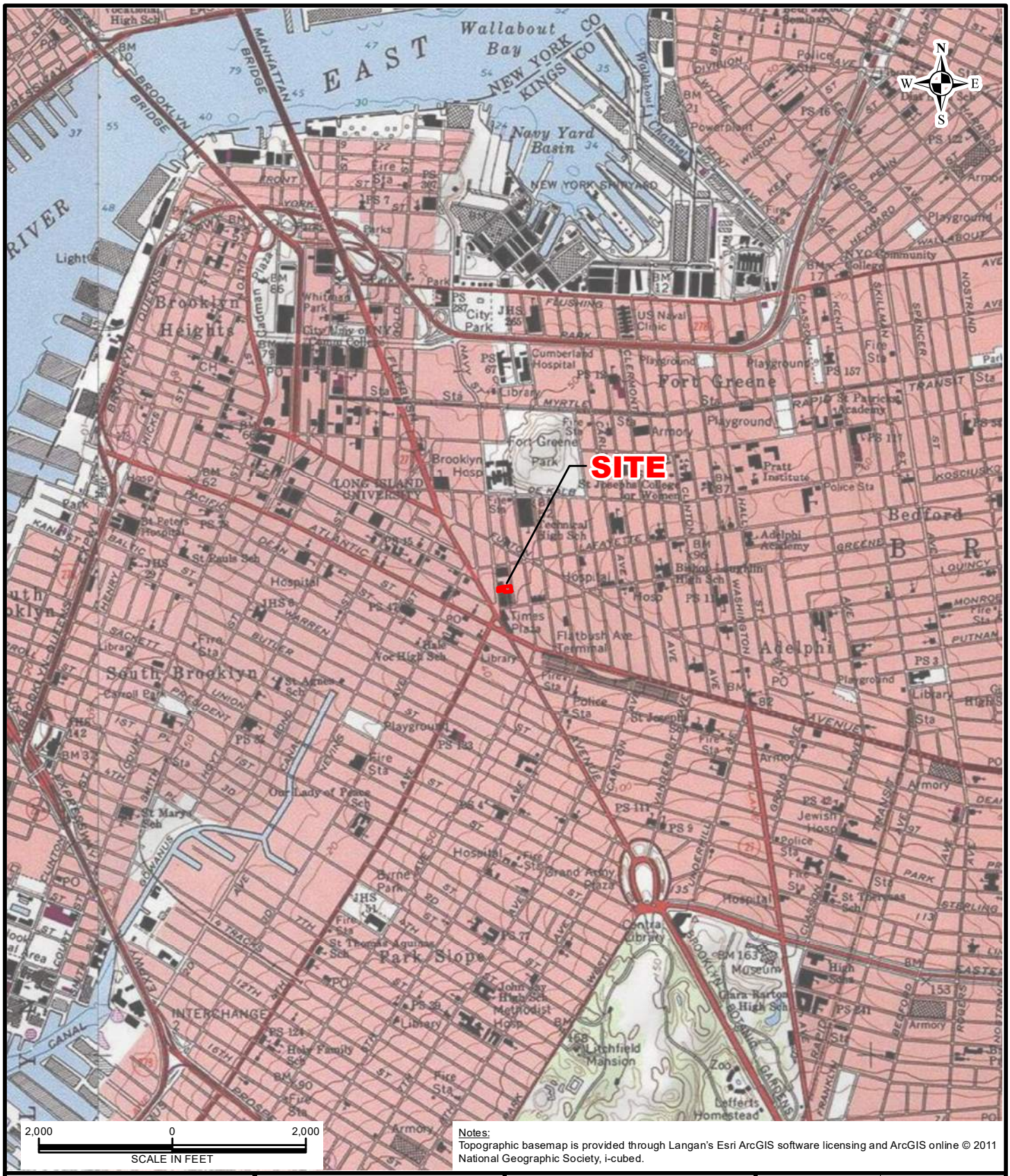
Respiratory Protection*:*

Level D:	No respirator required.
Level C:	Half-face, Air Purifying Respirator (APR) with combination HEPA (dusts, fumes, aerosols) and organic vapor cartridges. The respirator will be NIOSH-approved.
Level C - supplemental by task	Fullface, Air Purifying Respirator (APR) with combination HEPA (dusts, fumes, aerosols), acid gas, organic vapor cartridges. The respirator will be NIOSH-approved.

Personal Protective Clothing*:*

Level D:	Hard-hat, traffic vest (if working on or adjacent to the roadway), long sleeve work shirt & work pants of natural fibers, safety glasses or goggles, steel-toed boots, hearing protection (if needed), nitril inner gloves and leather outer gloves.
Level D - supplemental PPE by task	Tyvek disposal suit
Level C:	Chemically resistant outer boots and Chemical resistant Tyvek disposal suite.

FIGURES



Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	100842301
Date	7/30/2020
Scale	1"=2,000'
Drawn By	ATR
Figure	1

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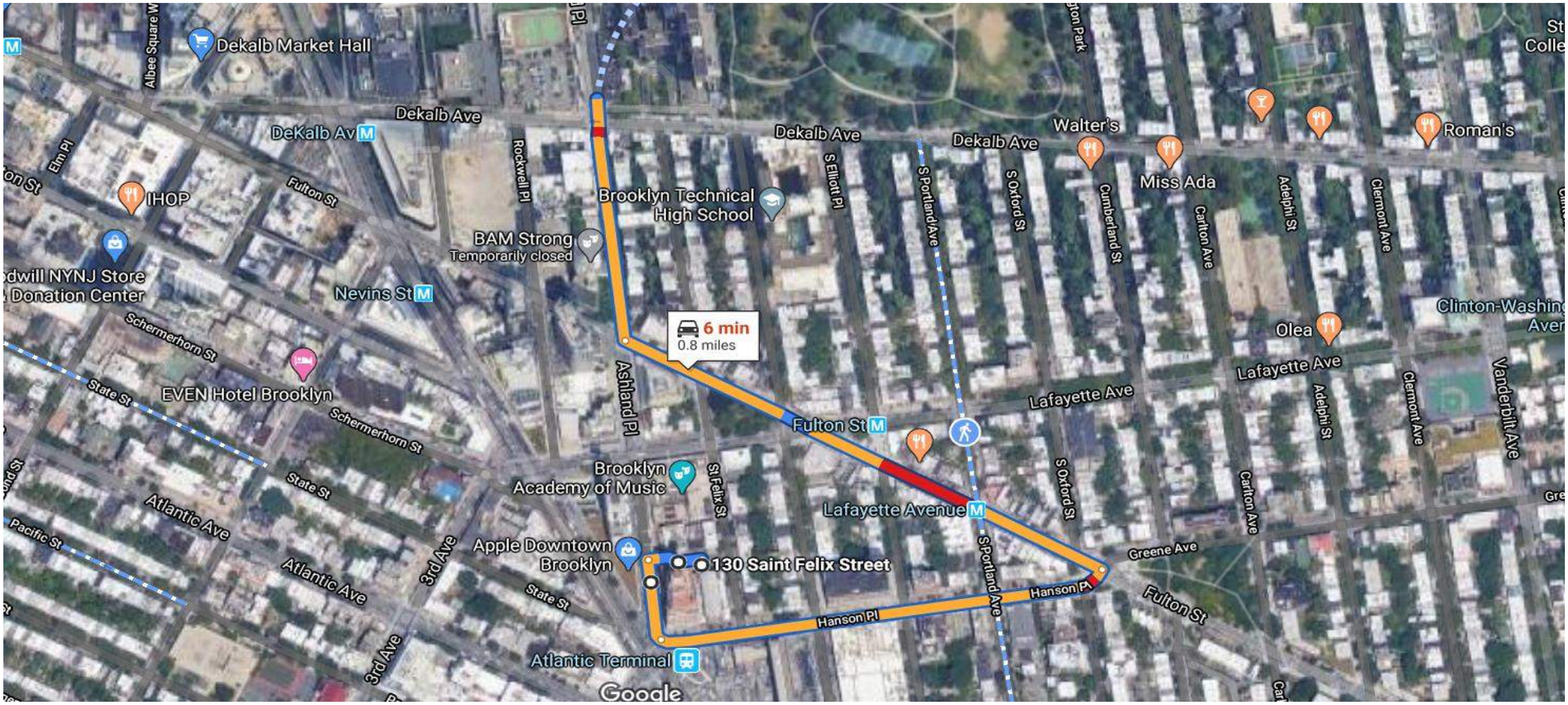
Path: \\langan.com\data\PAR\data3\100842301\Project Data\ArcGIS\MXD\Environmental_Figures\2020-07 - RIWP\Figure 1 - Site Location Map.mxd Date: 7/30/2020 User: aruane Time: 1:07:04 PM



Emergency Route to The Brooklyn Hospital Center Emergency Room (Phone # (718) 250-8000) :

1 Start traveling west towards Ashland Place
2 Turn left onto Ashland
3 Ashland Place turns left and becomes Hanson place
4 Turn left onto Fulton St
5 Turn right onto Ashland Place, The hospital will be on your right

MAP REFERENCE: Google Maps

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Project

130 Saint Felix Street
EMERGENGY HOSPITAL ROUTE MAP

Brooklyn **New York**

Project	DATE	SCALE	FIGURE NO.
100842301	**7/24/2020**	**NTS**	**2**

ATTACHMENT A

Health and Safety Briefing Statement

ATTACHMENT A

HEALTH AND SAFETY BRIEFING STATEMENT

The following personnel were present at a pre-job safety briefing conducted at _____(time) on _____ (date) at _____(location), and have read this Health and Safety Plan for the above Site and are familiar with its provisions:

Name	Signature
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Fully charged ABC class fire extinguisher available on Site? _____

Fully stocked First Aid Kit available on Site? _____

All project personnel advised of location of nearest phone? _____

All project personnel advised of location of designated medical facility? _____

_____

Name of Field Team Leader or Site Safety Officer

_____

Signature Date

ATTACHMENT B

Field Procedures Change Authorization Form

ATTACHMENT B

FIELD PROCEDURES CHANGE AUTHORIZATION FORM

Section to be changed:_____

Duration of Authorization Requested Date:_____

_____ Today only

_____ Duration of Task

_____ Other_____

_____

_____

Description of Procedures Modification:

_____

_____

_____

Justification:

_____ _____

Person Requesting Change Verbal Authorization Received From:

_____ _____

Name Name Time

_____ _____

Title Title

_____

Signature

Approvals:

_____

_____

_____

ATTACHMENT C

Unsafe Conditions and Practices Form

ATTACHMENT C

UNSAFE CONDITIONS AND PRACTICES FORM

DESCRIPTION OF CIRCUMSTANCES REGARDING UNSAFE CONDITION OR PRACTICE:

_____

_____

_____

_____

_____

_____

_____

IS THIS CONDITION EXISTING OR POTENTIAL?_____

REPORTED TO: _____

REPORTED BY:_____

DATE REPORTED:_____

COMMENTS:_____

_____

_____

ATTACHMENT D

Calibration Log

ATTACHMENT D

PROJECT:_____

DATE:_____

CALIBRATION LOG

Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calib Reading	Performed By:

ATTACHMENT E

Emergency Notification Numbers

ATTACHMENT E

EMERGENCY NOTIFICATION NUMBERS

The following list provides names and telephone numbers for emergency contact personnel.

ORGANIZATION	CONTACT	TELEPHONE
New York City Police		911
New York City Fire		911
The Brooklyn Hospital Center		718-250-8000
WorkCare (Non-Emergency Medical Treatment)		1-888-449-7787
Langan Incident/Injury Hotline		1-800-952-6426 or 973-560-4699
Langan Project Manager	Chris McMahon	201-218-2339
CHEMTREC	(US) (worldwide)	800-262-8200 703-741-5500
TSCA HOTLINE		202-554-1404
RCRA HOTLINE		800-424-9346
CDC	(regional poison control)	800-232-4636 800-222-1222
BUREAU OF ALCOHOL, TOBACCO & FIREARMS	(local)	800-800-3855 202-648-7777
NATIONAL RESPONSE CENTER		800-424-8802
PESTICIDE INFORMATION SERVICE		800-858-7378
BUREAU OF EXPLOSIVES, A.A. RAILWAYS	(Support Services)	202-639-2265 719-584-7151
FEDERAL EXPRESS - HAZARDOUS MATERIAL INFO		800-463-3339 *call and say 'Hazardous Materials'

ATTACHMENT F

Accident / Incident Report Form

ATTACHMENT F

INCIDENT REPORT

LANGAN EMPLOYEE EXPOSURE/INJURY INCIDENT REPORT
(Submit a Separate Report for Each Employee and/or Incident)

Date: _____

Employee's Name:_____ Employee No:_____

Sex: M _____ F _____ Age: _____

Region: _____ Location:_____

Project: _____ Project No: _____

Incident:_____

Type: Possible Exposure _____ Exposure _____ Physical Injury _____

Location: _____

Date of Incident: _____ Time of Incident: _____

Date of Report Incident: _____

Person(s) to Whom Incident was Reported: _____

Weather Conditions During Incident: Temperature _____ Humidity _____

Wind Speed and Direction: _____ Cloud Cover: _____

Clear: _____ Precipitation: _____

Materials Potentially Encountered: _____

Chemical (give name of description - liquid, solid, gas, vapor, fume, mist):

_____

_____

Radiological:_____

Other: _____

Nature of the Exposure/Injury: (State the nature of the exposure/injury in detail and list the parts of the body affected. Attach extra sheets if necessary).

_____

_____

_____

_____

_____

Did you receive medical care? Yes _____ No _____ If so, when _____

Where? On-Site _____ Off-Site _____

By Whom: Name of Paramedic: _____

Name of Physician: _____

Other: _____

If Off-Site, name facility (hospital, clinic, etc):_____

_____

Length of stay at the facility?_____

Was the Site Safety Officer contacted? Yes _____ No _____ When?_____

Was the Corporate Health and Safety Officer contacted? Yes _____ No _____

If so, who was the contact?_____

Did the exposure/injury result in permanent disability? Yes _____ No _____

If so, explain:_____

_____

_____

_____

Has the employee returned to work? Yes _____ No _____

List the names of other persons affected during this incident:

_____

_____

_____

_____

_____

_____

List the names of persons who witnessed the exposure/injury incident:

_____
_____
_____
_____
_____
_____
_____

Possible cause of the exposure/injury incident: _____

_____
_____
_____
_____
_____

What was the name and title of the field team leader or immediate supervisor at the site of the incident?

_____

Was the operation being conducted under an established Health and Safety Plan?

Yes _____ No _____ If yes, attach a copy. If no, explain

_____
_____
_____
_____
_____
_____

Describe protective equipment and clothing used by the employee:

_____
_____
_____
_____
_____
_____

Did any limitations in safety equipment or protective clothing contribute to or affect exposure? If so, explain:

_____
_____
_____

What was the employee doing when the exposure/injury occurred? (Describe briefly as Site Reconnaissance, Site Characterization, or Sampling, etc.):

_____

_____

_____

_____

Where exactly on site or off site did the exposure/injury occur?

_____

_____

_____

_____

_____

How did the exposure/injury occur? (Describe fully what factors led up to and/or contributed to the incident):

_____

_____

_____

_____

_____

Name of person(s) initiating report, job title, phone number:

_____

_____

_____

_____ _____

Employee Signature Date

_____ _____

Site Safety Officer Signature or Field Team Leader Signature Date

ATTACHMENT G

Jobsite Safety Inspection Checklist

LANGAN

JOBSITE SAFETY INSPECTION CHECKLIST

Client: _____ Inspection Date: _____

Site: _____ Inspector: _____

Employees: _____

Notes:_____

Check one of the following: **A:** Acceptable **NA**: Not Applicable **D**: Deficiency

	A	NA	D	Remarks
GENERAL				
Appropriate PPE being worn by Langan employees and subcontractors?				
Air monitoring instruments calibrated daily and results recorded on the Daily Instrument Calibration check sheet?				
Air monitoring readings recorded on the air monitoring data sheet/field log book?				
Incident reporting procedures known?				
Site security an issue?				
Vehicle /pedestrian traffic issue?				
Adequate size/type fire extinguisher supplied?				
Evidence that drilling operator is responsible for the safety of his rig.				
First Aid kit available?				
PERSONAL PROTECTIVE EQUIPMENT				
Eye Protection?				
Head protection?				
Safety Shoes?				
Safety vests?				
Hand protection?				
Other?				
Deficiencies??				
HOUSEKEEPING				
Work area kept clean/tidy to minimize potential hazards?				
Waste being disposed of quickly and properly				
Adequate lighting for job?				
Portable water available?				
HAND TOOLS				
Are tools in good condition and properly used? (INSPECT)				
Are proper tools being used?				
Are tools safety stored when not in use?				
Have tools been inspected prior to use?				
Are employees familiar with using tools?				
Is additional PPE required for tools? Available?				
POWER TOOLS				
Are tools in good condition and properly used? (INSPECT)				
Are tools properly grounded?				
Safety guards in place and used correctly?				
Competent instruction / supervision?				
Cords include in inspection?				

HAZWOPER				
Employees have current 40-hr./8-hr./Supervisor HAZWOPER training?				
Project staff medically cleared to work in hazardous waste sites and fit-tested to wear respirators, if needed?				
Respiratory protection readily available?				
Subcontract workers have current 40-hr./8-hr./Spvsr. HAZWOPER training, as appropriate?				
Subcontract workers medically cleared to work on site, and fit-tested for respirator wear?				
Subcontract workers have respirators readily available?				
HEALTH & SAFETY PLAN				
HASP available on site for inspection?				
Health & Safety Compliance agreement (in HASP) appropriately signed by Langan employees and subcontractors?				
Hospital route map with directions posted on site?				
Emergency Notification List posted on site?				
Personnel trained in CPR/First Aid on site?				
MSDSs readily available, and all workers knowledgeable about the specific chemicals and compounds to which they may be exposed?				
Project site safe practices ("Standing Orders") posted?				
Health & Safety Incident Report forms available?				
Decontamination procedures being followed as outlined in HASP?				
UNDERGROUND UTILITY				
Mark outs of underground utilities done prior to initiating any subsurface activities?				
Underground utilities located and authorities contacted before digging?				
Visually observed mark-outs?				
Is subsurface work within three feet of underground utilities?				
- Is so, is or was soft dig techniques used?				
Drilling performed in areas free from underground utilities?				
EXCAVATION / TRENCH				
Are excavations/trenches over 5 feet deep sloped, shored or a trench box used?				
Operations supervised by a Competent Person?				
Is Competent Person preforming daily inspections of excavation/trench?				
Adequate barricades in place?				
Have underground utilities been identified?				
Ladders / means of egress in trench with 25-foot of every worker?				
Has PE designed or approved protective system?				
Excavated material and other objects placed more than 2 feet away from excavation edge?				
Public protected from exposure to open excavation?				
CONFINED / PERMIT-ENTRY CONFINED SPACE				
People entering the excavation regarding it as a permit-required confined space and following appropriate procedures?				
Confined space entry permit is completed and posted?				
All persons knowledgeable about the conditions and characteristics of the confined space?				
All persons engaged in confined space operations have been trained in safe entry and rescue (non-entry)?				
Full body harnesses, lifelines, and hoisting apparatus available for rescue needs?				
Attendant and/or supervisor certified in basic first aid and CPR?				
Confined space atmosphere checked before entry and continuously while the work is going on?				
Results of confined space atmosphere testing recorded?				
Evidence of coordination with off-site rescue services to perform entry rescue, if needed?				
ELECTRICAL SAFETY				
Equipment at least 10 feet from overhead power lines?				
Is equipment grounded?				
GFCI used and tested where required?				
Are extension cords rated for this work being used and are they properly maintained?				
Electrical dangers posted at site?				

FLAMMABLE LIQUIDS				
Are flammable liquids used at site?				
Are flammable liquids stored in appropriate containers?				
Are flammable liquids kept away from combustion sources?				
Do flammable liquid containers have warning labels?				

LADDERS				
Are ladders used at site?				
Were ladders inspected prior to use?				
Are ladders in good working condition?				
Are ladders secured to prevent slipping, sliding or falling?				
Do side rails extend three feet above top of landing area?				
Are top two steps of stepladders being used?				
Is extension on ladder facing out?				
Are ladders sufficient for task?				
Are ladders sufficient for task?				

Unsafe acts observed? _____

Additional remarks _____

Notes:_____

Distribution: Project Manager - Name: _____
Health & Safety Officer - Name: _____
Health & Safety Manager- Name: Anthony Moffa, CHMM

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ATTACHMENT H

NYSDOH Generic Community Air Monitoring Plan (CAMP)

LANGAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50° C (14 to 122° F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

ATTACHMENT I

CAMP Special Requirements

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.

ATTACHMENT J

Safety Data Sheets (SDS)

Safety Data Sheet

1,1-Dichloro-2,2-bis(4-chlorophenyl-d_4)ethylene

Section 1. Chemical product and company identifications

Product code: D-3005
Chemical formula: $C_{14}D_8Cl_4$
CAS: 93952-19-3
CAS (unlabelled): 72-55-9
Synonyms: 4,4'-DDE, 2,2-Bis(4-chlorophenyl)-1,1-dichloroethylene

Supplier / Manufacturer:

C/D/N Isotopes Inc.
88 Leacock Street
Pointe-Claire (Québec) H9R 1H1
Phone: 514-697-6254
Toll-Free (Canada & USA): 1-800-565-4696
Fax: 514-697-6148
Website: www.cdnisotopes.com

In case of emergency:

TOXYSCAN HOTLINE: 1-855-780-0599

Section 2. Hazards identifications

Physical state: Solid
Warning: Harmful if swallowed. Suspected of causing cancer.
Routes of entry: Inhalation, skin and eyes

GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

GHS Classification:
- Acute toxicity, Oral (Category 4)
- Carcinogenicity (Category 2)

GHS Label elements:
- Pictograms:
- Signal word: Warning

Hazards statement:
- H302 Harmful if swallowed.
- H351 Suspected of causing cancer.

Precautionary statement: - P281 Use personal protective equipment as required.

Section 3. Composition and information on ingredients

Name	CAS	Concentration %
1,1-Dichloro-2,2-bis(4-chlorophenyl-d_4)ethylene	93952-19-3	> 98

Section 4. First aid measures

Eye contact: Flush eyes with water as a precaution.
Skin contact: Wash off with soap and plenty of water. Consult a physician.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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Section 5. Firefighting measures

Flammability of the product: Not flammable or combustible.
Lower explosion limit: No data available.
Upper explosion limit: No data available.
Auto-ignition temperature: No data available.
Flash point: No data available.
Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.
Firefighting media and instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and storage

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Storage: Store at room temperature. Adequate ventilation. Protect from light.

Section 8. Exposure Controls, Personal Protections

Engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.
Eyes: Safety glasses with side-shields conforming to NIOSH (US).
Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).
Hands: Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Skin/body: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 318.03 g/mol
Physical status: Solid
Color: White-pale yellow
Odour: No data available
Density: No data available
Melting point: 88 - 90 °C (190 - 194 °F)
Boiling point: 336 °C (637 °F)
Vapour pressure: < 0.00001 hPa (< 0.00001 mmHg)
Vapour density: No data available
Partition coefficient (octanol/water): log Pow: 6.51
Water solubility: 0.04 mg/L

Section 10. Stability and reactivity

Stability and reactivity: Stable under recommended storage conditions.
Incompatibility: Strong oxidizing agents, strong bases.
Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides, hydrogen chloride gas.
Reactivity conditions: No data available.

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Section 11. Toxicological information (unlabelled)

Toxicological data: 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethylene

Information on ingredients:

Name	CAS	LD_{50}	LC_{50}
1,1-Dichloro-2,2-bis(4-chlorophenyl)ethylene	72-55-9	Oral - rat - 880 mg/kg	No data available

Potential acute effects

- **Eyes:** May cause eye irritation.
- **Skin:** Harmful if absorbed through skin. May cause skin irritation.
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion:** Harmful if swallowed.

Potential chronic effects

- **Carcinogenic effects:** This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **Mutagenic effects:** No data available.
- **Teratogenic effects:** No data available.
- **Medical conditions aggravated by overexposure:** No data available.

Section 12. Ecological information

Ecological data:

Name	Results	Species	Period
1,1-Dichloro-2,2-bis (4-chlorophenyl)ethylene	0.2 - 0.3 mg/l LC50	Lepomis macrochirus	96 h
	0.03 - 0.04 mg/l LC50	Oncorhynchus mykiss	96 h
	0.05 - 0.18 mg/l LC50	Salmo salar	96 h

Effects on environment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Mobility: No data available.
Environmental precautions: No data available.
Persistence and degradability: No data available.
Bioaccumulative potential: Gambusia affinis (Mosquito fish) - 33 d. Bioconcentration factor (BCF): 12,037.

Section 13. Disposal considerations

Waste disposal: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14. Transportation information

Classification DOT/IMDG/IATA label:

Shipping name: Not dangerous goods
UN number: None
Class: None
Packaging group: None

Additional information: None

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Section 15. Regulatory information

UNITED STATES:
NFPA classification

Health: 1
Flammable: 0
Reactivity: 0
Specials conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

U.S. Federal regulations:

TSCA 8(b) inventory: 1,1-Dichloro-2,2-bis(4-chlorophenyl)ethylene
SARA 302/304/311/312 extremely hazardous substances: Not Listed
SARA 302/304 emergency planning and notification: Not Listed
SARA 302/304/311/312 hazardous chemicals: Not Listed
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard: Not Listed
CWA (Clean Water Act) 307: Not Listed
CWA (Clean Water Act) 311: Not Listed
CAA (Clean Air Act) 112 accidental release prevention: Not Listed
CAA (Clean Air Act) 112 regulated flammable substances: Not Listed
CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

State regulations:

DEA List I Chemicals (Precursor Chemicals): Not Listed
DEA List II Chemicals (Essential Chemicals): Not Listed
Substances in Massachusetts: Not Listed
Dangerous substances in New Jersey: Not Listed
New York – Dangerous substances with acute effects: Not Listed
Dangerous substances in Pennsylvania – right to know: Not Listed

WHMIS (Canada):

Not WHMIS controlled.

Section 16. Additional information

References:

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

Date of issue: **February 20th, 2017**
Version: 1
Elaborated by: **Toxyscan Inc., 1-866-780-0599**
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Safety Data Sheet

Revision Date: 12/23/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**32203 / 4,4'-DDT Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	8
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Flammable Liquid Category 2
Acute Toxicity - Inhalation Dust / Mist Category 3
Acute Toxicity - Dermal Category 3
Acute Toxicity - Oral Category 3

GHS Signal Word:
Danger

GHS Hazard:
Highly flammable liquid and vapour.
Toxic if swallowed, in contact with skin or if inhaled.
Causes damage to organs.

GHS Precautions:

Safety Precautions:
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands and skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
IF SWALLOWED: Immediately call a POISON CENTER/doctor/....
IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed: Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Specific treatment see section 4.
Rinse mouth.
Take off immediately all contaminated clothing and wash it before reuse.
In case of fire: Use extinguishing media in section 5 for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
methanol	67-56-1	200-659-6	99.900000
4,4'-DDT	50-29-3	200-024-3	0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment
Storage Technical Measures and Conditions:	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
methanol	67-56-1	6000 ppm IDLH	250 ppm STEL	200 ppm TWA	200 ppm TWA; 260 mg/m3 TWA
4,4'-DDT	50-29-3	500 mg/m3 IDLH		1 mg/m3 TWA	1 mg/m3 TWA (listed under Dichlorodiphenyltric hloroethane)

Personal Protection:

Engineering Measures:	Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	No data available.
Odor:	Mild
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	1.1 (air = 1)
Boiling Point:	No data available.
Melting Point:	-98 °C
Flash Point:	52
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	36
Lower Flammable/Explosive Limit, % in air:	6
Autoignition Temperature:	464 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.791 - 0.792 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	No data available.
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	99.9
Molecular Weight:	32.04

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Methanol can cause central nervous system depression and overexposure can cause damage to the optic nerve resulting in visual impairment or blindness.
Skin Contact:	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact:	Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.Highly toxic and may be fatal if swallowed.
Ingestion Toxicity:	Toxic if swallowed. May cause target organ failure and/or death.May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	Contains a known human reproductive and/or developmental hazard.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs)
Skin Contact:	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Ingestion:	Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:
NIOSH:

Chemical Name	**CAS No.**	**LD50/LC50**
Methanol	67-56-1	Inhalation LC50 Rat 22500 ppm 8 h
DDT	50-29-3	Dermal LD50 Rabbit 300 - 2820 mg/kg

Component Carcinogenic Data:
OSHA:

Chemical Name	**CAS No.**	
DDT	50-29-3	Present

ACGIH:

Chemical Name	**CAS No.**	
DDT	50-29-3	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	**CAS No.**	
DDT	50-29-3	potential occupational carcinogen

NTP:

Chemical Name	**CAS No.**
No data available.	

IARC:

Chemical Name	**CAS No.**	**Group No.**
No data.		Group 1
DDT	50-29-3	Group 2A
No data.		Group 2B

12. ECOLOGICAL INFORMATION

Overview:	Moderate ecological hazard. This product may be dangerous

to plants and/or wildlife.

Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: Biodegrades slowly.
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3(6.1)
Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
methanol	67-56-1	X	X	-	X
4,4'-DDT	50-29-3	X	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
DDT	50-29-3	Prop 65 Cancer
Methanol	67-56-1	Prop 65 Devolop Tox
p,p"-DDT	50-29-3	Prop 65 Devolop Tox
p,p"-DDT	50-29-3	Prop 65 Rep Female
p,p"-DDT	50-29-3	Prop 65 Rep Male

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
methanol	67-56-1	X	X	X	X
4,4'-DDT	50-29-3	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 09/30/14
Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References: No data available.
Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose

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SAFETY DATA SHEET

Version 4.7
Revision Date 05/23/2016
Print Date 06/23/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Arsenic
Product Number	:	202657
Brand	:	Aldrich
Index-No.	:	033-001-00-X
CAS-No.	:	7440-38-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 3), H331
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H302	Harmful if swallowed.
H331	Toxic if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	As
Molecular weight	:	74.92 g/mol
CAS-No.	:	7440-38-2
EC-No.	:	231-148-6
Index-No.	:	033-001-00-X

Hazardous components

Component	Classification	Concentration
Arsenic		
	Acute Tox. 4; Acute Tox. 3; Aquatic Acute 1; Aquatic Chronic 1; H302, H331, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Arsenic	7440-38-2	TWA	0.01 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen		
		C	0.0020 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A 15 minute ceiling value		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Arsenic	7440-38-2	inorganic arsenic plus methylated metabolites	35µg As/l	In urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of the workweek (After four or five consecutive working days			

		with exposure)			
		inorganic arsenic plus methylated metabolites	35µg As/l	Urine	ACGIH - Biological Exposure Indices (BEI)
		End of the workweek (After four or five consecutive working days with exposure)			

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Pieces Colour: grey
b)	Odour	No data available
c)	Odour Threshold	No data available

d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 817 °C (1,503 °F) - lit.
f)	Initial boiling point and boiling range	613 °C (1,135 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	5.727 g/mL at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Heat Exposure to air may affect product quality.

10.5 Incompatible materials
Oxidizing agents, Halogens, Palladium undergoes a violent reaction with arsenic, Zinc, Platinum oxide, Nitrogen trichloride, Bromine azide

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Arsenic oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 763 mg/kg
Remarks: Behavioral:Ataxia. Diarrhoea

LD50 Oral - Mouse - 145 mg/kg
Remarks: Behavioral:Ataxia. Diarrhoea

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

IARC:	1 - Group 1: Carcinogenic to humans (Arsenic)
NTP:	Known to be human carcinogen (Arsenic)
	Known to be human carcinogen (Arsenic)
OSHA:	OSHA specifically regulated carcinogen (Arsenic)

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CG0525000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 9.9 mg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 3.8 mg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic
Reportable Quantity (RQ): 1 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1558 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: ARSENIC
Marine pollutant:yes

IATA
UN number: 1558 Class: 6.1 Packing group: II
Proper shipping name: Arsenic

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Arsenic	7440-38-2	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Arsenic	7440-38-2	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Arsenic	7440-38-2	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 05/23/2016 Print Date: 06/23/2016

SAFETY DATA SHEET

Version 5.6
Revision Date 06/02/2016
Print Date 07/20/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Benz[*a*]anthracene
Product Number	:	48563
Brand	:	Supelco
Index-No.	:	601-033-00-9
CAS-No.	:	56-55-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1B), H350
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.

P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2-Benzanthracene Tetraphene
Formula	:	$C_{18}H_{12}$
Molecular weight	:	228.29 g/mol
CAS-No.	:	56-55-3
EC-No.	:	200-280-6
Index-No.	:	601-033-00-9

Hazardous components

Component	Classification	Concentration
Benz[a]anthracene		
	Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber

Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 157 - 159 °C (315 - 318 °F)
f)	Initial boiling point and boiling range	437.6 °C (819.7 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - > 200 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Benz[a]anthracene)

NTP: Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)

NTP: Reasonably anticipated to be a human carcinogen (Benz[a]anthracene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benz[a]anthracene)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Benz[a]anthracene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Benz[a]anthracene	56-55-3	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	56-55-3	2007-09-28
WARNING! This product contains a chemical known to the State of California to cause cancer. Benz[a]anthracene	56-55-3	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.6 Revision Date: 06/02/2016 Print Date: 07/20/2017

SAFETY DATA SHEET

Revision Date 22-May-2017 **Revision Number** 2

1. Identification

Product Name **Benzo[a]pyrene, 98%**

Cat No. : **AC105600010; AC105601000**

Synonyms Benzo[def]chrysene.; 3,4-Benzopyrene; 3,4-Benzpyrene

Recommended Use Laboratory chemicals.
Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A

Label Elements

Signal Word
Danger

Hazard Statements
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Response
IF exposed or concerned: Get medical attention/advice
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Storage
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Benzo[a]pyrene	50-32-8	> 96

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air.

Ingestion Do not induce vomiting.

Most important symptoms/effects May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up No information available.

7. Handling and storage

Handling Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Benzo[a]pyrene		TWA: 0.2 mg/m³		

Legend

OSHA - Occupational Safety and Health Administration

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Dark yellow
Odor	aromatic
Odor Threshold	No information available
pH	
Melting Point/Range	175 179 °C
Boiling Point/Range	°C @ 760 mmHg

Flash Point	
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C20H12
Molecular Weight	252.31

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzo[a]pyrene	50-32-8	Group 1	Reasonably Anticipated	A2	X	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Benzo[a]pyrene	Group III Chemical	Not applicable	Not applicable

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

Component	log Pow
Benzo[a]pyrene	6.06

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Benzo[a]pyrene - 50-32-8	U022	-

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

TDG

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Benzo[a]pyrene	X	X	-	200-028-5	-		X	-	-	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Benzo[a]pyrene	50-32-8	> 96	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzo[a]pyrene	-	-	X	X

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzo[a]pyrene	1 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Benzo[a]pyrene	50-32-8	Carcinogen	0.06 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzo[a]pyrene	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date	22-May-2017
Print Date	22-May-2017
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Revision Date 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **Barium**

Cat No. : **AC317860000; AC317860250; AC317861000; AC317865000**

Synonyms None Known.

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
Acute oral toxicity	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Danger

Hazard Statements
Flammable solid
Toxic if swallowed
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Response
Call a POISON CENTER or doctor/physician if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Fire
Explosion risk in case of fire
Fight fire with normal precautions from a reasonable distance
Evacuate area
Storage
Store locked up
Store in a closed container
Store in a well-ventilated place. Keep cool
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
Barium	7440-39-3	99.9

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Contact with water liberates toxic gas. Water reactive. Combustible material. Produce flammable gases on contact with water.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	W

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Handle under inert gas, protect from moisture. Wear personal protective equipment.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from moisture. Never allow product to get in contact with water during storage. Store under an inert atmosphere.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium	TWA: 0.5 mg/m^3	(Vacated) TWA: 0.5 mg/m^3	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Barium			TWA: 0.5 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration

Engineering Measures Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Grey
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	725 °C / 1337 °F
Boiling Point/Range	1640 °C / 2984 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	10 mmHg @ 1094 °C
Vapor Density	No information available
Relative Density	3.51 @ 20 °C
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Ba
Molecular Weight	137.34

10. Stability and reactivity

Reactive Hazard Yes

Stability Moisture sensitive. Air sensitive.

Conditions to Avoid Exposure to air. Incompatible products. Exposure to moisture.

Incompatible Materials Acids, Water, Alcohols, Halogens

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Oral LD50 Category 3. ATE = 50 - 300 mg/kg.
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Barium	132 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Barium	7440-39-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Do not empty into drains.

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1400
Proper Shipping Name	BARIUM
Hazard Class	4.3
Packing Group	II

TDG

UN-No	UN1400
Proper Shipping Name	BARIUM
Hazard Class	4.3
Packing Group	II

IATA

UN-No	UN1400
Proper Shipping Name	Barium
Hazard Class	4.3
Packing Group	II

IMDG/IMO

UN-No	UN1400
Proper Shipping Name	Barium
Hazard Class	4.3
Packing Group	II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Barium	X	X	-	231-149-1	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Barium	7440-39-3	99.9	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Barium	1000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Barium	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B4 Flammable solid
B6 Reactive flammable material
D2B Toxic materials
D1A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage,

transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

Safety Data Sheet

Revision Date: 12/08/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**31272 / Benzo(b)fluoranthene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	9
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Flammable Liquid Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.900000
benzo (b) fluoranthene	205-99-2	205-911-9	0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	500 ppm STEL 750 ppm STEL; 1782 mg/m3 STEL	250 ppm TWA 500 ppm TWA; 1188 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
benzo (b) fluoranthene	205-99-2	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	2.0 (air = 1)
Boiling Point:	No data available.
Melting Point:	-95.4 °C Melting Point
Flash Point:	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available.
Lower Flammable/Explosive Limit, % in air:	No data available.
Autoignition Temperature:	465 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	0
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Acetone	67-64-1	Dermal LD50 Rabbit >15700 mg/kg; Oral LD50 Rat 5800 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.	
Benzo(b)fluoranthene	205-99-2	Present

ACGIH:

Chemical Name	CAS No.	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Benzo[b]fluoranthene	205-99-2	A2 - Suspected Human Carcinogen

NIOSH:

Chemical Name	CAS No.
No data available.	

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
No data.		Group 2A
Benzo(b)fluoranthene	205-99-2	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:

DOT Proper Shipping Name:	Acetone

UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

International:

IATA Proper Shipping Name:	Acetone
UN Number:	UN1090
Hazard Class:	3
Packing Group:	II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X
benzo (b) fluoranthene	205-99-2	X	X	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Benzo[b]fluoranthene	205-99-2	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
benzo (b) fluoranthene	205-99-2	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 03/23/15

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available.

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

1 Identification

Product identifier

Product name: **Benzene**

Stock number: L14012
CAS Number:
71-43-2
EC number:
200-753-7
Index number:
601-020-00-8
Relevant identified uses of the substance or mixture and uses advised against.
Identified use: SU24 Scientific research and development

Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com
Information Department: Health, Safety and Environmental Department
Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
STOT RE 1 H372 Causes damage to the lung, the kidneys, the liver, the spleen, the blood, the brain and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative, Dermal.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Hazards not otherwise classified No information known.

Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger
Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H372 Causes damage to the lung, the kidneys, the liver, the spleen, the blood, the brain and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative, Dermal.
H304 May be fatal if swallowed and enters airways.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/…
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification
B2 - Flammable liquid
D2A - Very toxic material causing other toxic effects

Classification system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)

Health (acute effects) = 2
Flammability = 3
Physical Hazard = 1

(Contd. on page 2)

Product name: **Benzene**

(Contd. of page 1)

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances
CAS# Description:
71-43-2 Benzene
Identification number(s):
EC number: 200-753-7
Index number: 601-020-00-8

4 First-aid measures

Description of first aid measures
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.
After skin contact
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment.
Information for doctor
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Advice for firefighters
Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Environmental precautions: Do not allow product to reach sewage system or any water course.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Prevention of secondary hazards: Keep away from ignition sources.
Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

Handling
Precautions for safe handling
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.
Open and handle container with care.
Information about protection against explosions and fires:
Protect against electrostatic charges.
Fumes can combine with air to form an explosive mixture.
Keep ignition sources away.

Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility:
Do not store together with acids.
Store away from strong bases.
Store away from oxidizing agents.
Store away from halogens.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

(Contd. on page 3)

Product name: Benzene

(Contd. of page 2)

Control parameters

Components with limit values that require monitoring at the workplace:

71-43-2 Benzene (100.0%)

PEL (USA)	Short-term value: 15* mg/m³, 5* ppm Long-term value: 3* mg/m³, 1* ppm *table Z-2 for exclusions in 29CFR1910.1028(d)
REL (USA)	Short-term value: 1 ppm Long-term value: 0.1 ppm See Pocket Guide App. A
TLV (USA)	Short-term value: 8 mg/m³, 2.5 ppm Long-term value: 1.6 mg/m³, 0.5 ppm Skin; BEI
EL (Canada)	Short-term value: 2.5 ppm Long-term value: 0.5 ppm Skin; ACGIH A1; IARC 1
EV (Canada)	Short-term value: 2.5 ppm Long-term value: 0.5 ppm Skin

Ingredients with biological limit values:

71-43-2 Benzene (100.0%)

BEI (USA)	25 µg/g creatinine Medium: urine Time: end of shift Parameter Parameter: S-Phenylmercapturic acid (background 500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

Additional information: No data

Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).
Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
Material of gloves Fluorocarbon rubber (Viton)
Penetration time of glove material (in minutes) Not determined
Eye protection: Safety glasses
Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties
General Information

Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Aromatic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	5 °C (41 °F)
Boiling point/Boiling range:	80 °C (176 °F)
Sublimation temperature / start:	Not determined
Flash point:	-11 °C (12 °F)
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	555 °C (1031 °F)
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	8 Vol %
Vapor pressure at 20 °C (68 °F):	101 hPa (76 mm Hg)
Density at 20 °C (68 °F):	0.874 g/cm³ (7.294 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water at 25 °C (77 °F):	1.8 g/l
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
dynamic at 20 °C (68 °F):	0.66 mPas
kinematic:	Not determined.

(Contd. on page 4)

Product name: **Benzene**

(Contd. of page 3)

Other information No further relevant information available.

10 Stability and reactivity

Reactivity No information known.
Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Reacts with strong oxidizing agents
Conditions to avoid No further relevant information available.
Incompatible materials:
Acids
Oxidizing agents
Bases
Halogens
Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects
Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification:

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	>9400 µL/kg (rabbit)
Inhalative	LC50/7H	10000 ppm/7H (rat)

Skin irritation or corrosion: Causes skin irritation.
Eye irritation or corrosion: Causes serious eye irritation.
Sensitization: No sensitizing effects known.
Germ cell mutagenicity:
May cause genetic defects.
The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.
Carcinogenicity:
May cause cancer.
EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer.
IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.
ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.
EPA-K: Known human carcinogens.
Carcinogen as defined by OSHA.
NTP-K: Known to be carcinogenic: sufficient evidence from human studies.
The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.
Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.
Specific target organ system toxicity - repeated exposure:
Causes damage to the lung, the kidneys, the liver, the spleen, the blood, the brain and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative, Dermal.
Specific target organ system toxicity - single exposure: No effects known.
Aspiration hazard: May be fatal if swallowed and enters airways.
Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12 Ecological information

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
Recommendation Consult state, local or national regulations to ensure proper disposal.
Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number **DOT, IMDG, IATA**	UN1114
UN proper shipping name **DOT** **IMDG, IATA**	 RQ Benzene BENZENE
Transport hazard class(es)	
DOT	

Class	3 Flammable liquids.
Label	3
Class	3 (F1) Flammable liquids

(Contd. on page 5)

Product name: **Benzene**

(Contd. of page 4)

Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
EMS Number:	F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Hazardous substance:	10 lbs, 4.54 kg
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1114, Benzene, 3, II

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger
Hazard statements
H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H372 Causes damage to the lung, the kidneys, the liver, the spleen, the blood, the brain and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative, Dermal.
H304 May be fatal if swallowed and enters airways.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/…
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)

71-43-2	Benzene

California Proposition 65

Prop 65 - Chemicals known to cause cancer

71-43-2	Benzene

Prop 65 - Developmental toxicity

71-43-2	Benzene

Prop 65 - Developmental toxicity, female Substance is not listed.

Prop 65 - Developmental toxicity, male

71-43-2	Benzene

Information about limitation of use:
Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.
Substance is not listed.
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/23/2015 / -
Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative

(Contd. on page 6)

Product name: Benzene

(Contd. of page 5)

ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

SAFETY DATA SHEET

Version 4.6
Revision Date 12/29/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Beryllium
Product Number	:	378135
Brand	:	Aldrich
CAS-No.	:	7440-41-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 2), H330
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 1B), H350
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.

H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Be
Molecular weight	:	9.01 g/mol
CAS-No.	:	7440-41-7
EC-No.	:	231-150-7

Hazardous components

Component	Classification	Concentration
Berylium foil		
	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; H301, H315, H317, H319, H330, H335, H350, H372	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Beryllium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Berylium foil	7440-41-7	TWA	2.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		CEIL	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Peak	25.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
	Remarks	Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization Chronic beryllium disease (berylliosis) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	2.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25.000000microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		TWA	0.000050 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Beryllium sensitization		

		Chronic beryllium disease (berylliosis) Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed human carcinogen Danger of cutaneous absorption Sensitizer		
		C	0.000500 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		See Table Z-2		
		TWA	2microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		CEIL	5microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		Peak	25microgram per cubic meter	USA. Occupational Exposure Limits (OSHA) - Table Z-2
		Z27.29-1970		
		C	0.0005 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,278 °C (2,332 °F) - lit.
f)	Initial boiling point and boiling range	2,970 °C (5,378 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	1.85 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Alkali metals

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intravenous - Rat - 0.496 mg/kg
Remarks: Liver:Hepatitis (hepatocellular necrosis), zonal.

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Hamster
Lungs
Result: negative

Carcinogenicity

Carcinogenicity - Rat - Intratracheal
Tumorigenic:Neoplastic by RTECS criteria. Lungs, Thorax, or Respiration:Tumors. Lungs, Thorax, or Respiration:Bronchiogenic carcinoma.

Carcinogenicity - Rabbit - Intravenous
Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Musculoskeletal:Tumors.

Possible human carcinogen

IARC:	1 - Group 1: Carcinogenic to humans (Berylium foil)
NTP:	Known to be human carcinogen (Berylium foil)
	Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Berylium foil)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: DS1750000

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium, powder
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1567 Class: 6.1 (4.1) Packing group: II EMS-No: F-G, S-G
Proper shipping name: BERYLLIUM POWDER

IATA
UN number: 1567 Class: 6.1 (4.1) Packing group: II
Proper shipping name: Beryllium powder

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Berylium foil	7440-41-7	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Berylium foil	7440-41-7	2008-10-10

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	3
Reactivity Hazard:	3

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Safety Data Sheet

Revision Date: 12/30/16
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**31274 / Benzo(k)fluoranthene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	10
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Flammable Liquid Category 2 Serious Eye Damage/Eye Irritation Category 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
GHS Signal Word:	Danger
GHS Hazard:	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
GHS Precautions:	
Safety Precautions:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilation and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use extinguishing media in section 5 for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.

Single Exposure Target Organs: No data available.

Repeated Exposure Target Organs: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Acetone	67-64-1	200-662-2	99.900000
benzo (k) fluoranthene	207-08-9	205-916-6	0.100000

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE- FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

Fire and/or Explosion Hazards: Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from

incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Acetone	67-64-1	2500 ppm IDLH (10% LEL)	500 ppm STEL 750 ppm STEL; 1782 mg/m3 STEL	250 ppm TWA 500 ppm TWA; 1188 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
benzo (k) fluoranthene	207-08-9	ND		No TLV	No data available.

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 3. A respirator is not normally required.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

Medical Conditions Aggravated By Exposure: Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Depends upon product selection
Odor:	Strong
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	2.0 (air = 1)
Boiling Point:	No data available.
Melting Point:	-95.4 °C Melting Point
Flash Point:	39
Flammability:	Highly Flammable
Upper Flammable/Explosive Limit, % in air:	No data available.
Lower Flammable/Explosive Limit, % in air:	No data available.
Autoignition Temperature:	465 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	0.7845 g/cm3 at 25 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Complete; 100%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	0
Molecular Weight:	58.08

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Strong acids
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation, Skin Contact, Eye Contact, Ingestion
Target Organs Potentially Affected By Exposure:	Eyes, Central nervous system stimulation, Respiratory Tract, Skin
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Can cause minor skin irritation, defatting, and dermatitis.
Eye Contact:	Can cause minor irritation, tearing and reddening.
Ingestion Irritation:	May be harmful if swallowed.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Skin Contact:	Upon prolonged or repeated contact, can cause minor skin irritation, defatting, and dermatitis.

Component Toxicological Data:
NIOSH:

Chemical Name	**CAS No.**	**LD50/LC50**
Acetone	67-64-1	Dermal LD50 Rabbit >15700 mg/kg; Oral LD50 Rat 5800 mg/kg; Inhalation LC50 Rat 50100 mg/m3 8 h

Component Carcinogenic Data:
OSHA:

Chemical Name	**CAS No.**	
Benzo(k)fluoranthene	207-08-9	Present

ACGIH:

Chemical Name	**CAS No.**	
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen

NIOSH:

Chemical Name	**CAS No.**
No data available.	

NTP:

Chemical Name	**CAS No.**
No data available.	

IARC:

Chemical Name	**CAS No.**	**Group No.**
No data.		Group 1
No data.		Group 2A
Benzo(k)fluoranthene	207-08-9	Group 2B

12. ECOLOGICAL INFORMATION

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Ecological Toxicity Data:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product:	Spent or discarded material is a hazardous waste.
Disposal Methods:	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal of Packaging:	Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:	
DOT Proper Shipping Name:	Acetone
UN Number:	UN1090

Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Acetone
UN Number: UN1090
Hazard Class: 3
Packing Group: II

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Acetone	67-64-1	X	-	-	X
benzo (k) fluoranthene	207-08-9	X	X	-	-

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Benzo[k]fluoranthene	207-08-9	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Acetone	67-64-1	X	X	X	X
benzo (k) fluoranthene	207-08-9	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/15/15
Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.
References: No data available.
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SAFETY DATA SHEET

Creation Date 14-May-2010 **Revision Date** 23-Dec-2014 **Revision Number** 1

1. Identification

Product Name **Carbazole**

Cat No. : **AC108260000; AC108260010; AC108260050; AC108260250; AC108262500; AC108265000**

Synonyms 9-Azafluorene; Dibenzopyrrole; Diphenylenimine

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May cause cancer

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Wear eye/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
9H-Carbazole	86-74-8	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. Obtain medical attention.

Ingestion Clean mouth with water. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 220 °C / 428 °F
Method - No information available

Autoignition Temperature 540 °C / 1004 °F
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. Use only in area provided with appropriate exhaust ventilation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Beige
Odor	pungent
Odor Threshold	No information available
pH	No information available
Melting Point/Range	240 - 246 °C / 464 - 474.8 °F
Boiling Point/Range	355 °C / 671 °F @ 760 mmHg
Flash Point	220 °C / 428 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	400 mmHg @ 323 °C
Vapor Density	Not applicable
Relative Density	1.1
Solubility	insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	540 °C / 1004 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H9 N
Molecular Weight	167.21

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents, Strong bases

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
9H-Carbazole	>5000 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. Limited evidence of a carcinogenic effect.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
9H-Carbazole	86-74-8	Group 2B	Not listed	Not listed	X	Not listed

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available
Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
9H-Carbazole	6.7 mg/L EC50 = 60 h	1 mg/L LC50 48 h	EC50 = 10.6 mg/L 15 min EC50 = 11.6 mg/L 30 min EC50 = 13.6 mg/L 5 min	Not listed

Persistence and Degradability Insoluble in water Persistence is unlikely
Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility.

Component	log Pow
9H-Carbazole	3.84

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT
UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
Proper technical name 9H-Carbazole
Hazard Class 9
Packing Group III
TDG

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
9H-Carbazole	X	X	-	201-696-0	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category

9H-Carbazole	86-74-8	Carcinogen	4.1 µg/day	Carcinogen

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

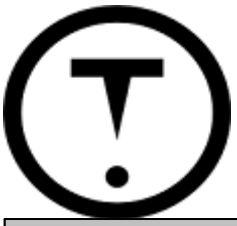
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials



16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 14-May-2010
Revision Date 23-Dec-2014
Print Date 23-Dec-2014
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 5.4
Revision Date 04/21/2015
Print Date 05/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Chlordane - Sandy Loam 2
Product Number	:	CRM825
Brand	:	Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 1A), H350
Specific target organ toxicity - repeated exposure, Inhalation (Category 2), H373
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Component		Classification	Concentration
Quartz			
CAS-No. EC-No.	14808-60-7 238-878-4	Carc. 2; STOT RE 2; H351, H373	>= 90 - <= 100 %
Chlordane			
CAS-No. EC-No. Index-No.	57-74-9 200-349-0 602-047-00-8	Acute Tox. 3; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; H301 + H311, H351, H410	< 0.1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
silicon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Store at Room Temperature.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Quartz	14808-60-7	TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Suspected human carcinogen		
		TWA	0.025 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Lung cancer Pulmonary fibrosis Suspected human carcinogen		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	1 - Group 1: Carcinogenic to humans (Quartz)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	Known to be human carcinogen (Quartz)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence
Nerves. - (Chlordane)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date

Quartz	14808-60-7	1994-04-01
Chlordane	57-74-9	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Quartz	14808-60-7	1994-04-01
Chlordane	57-74-9	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Quartz	14808-60-7	1994-04-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No.	Revision Date
Chlordane	57-74-9	2007-09-28
Quartz	14808-60-7	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H301 + H311	Toxic if swallowed or in contact with skin
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
STOT RE	Specific target organ toxicity - repeated exposure

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4 Revision Date: 04/21/2015 Print Date: 05/13/2016

SAFETY DATA SHEET

Methyl Chloride (R40)

Section 1. Identification

GHS product identifier : Methyl Chloride (R40)

Chemical name : chloromethane

Other means of identification : methyl chloride; Methane, chloro-; Methane, chloro- (methyl chloride)

Product use : Synthetic/Analytical chemistry.

Synonym : methyl chloride; Methane, chloro-; Methane, chloro- (methyl chloride)

SDS # : 001036

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas
ACUTE TOXICITY (inhalation) - Category 4
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Extremely flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May cause frostbite.
May displace oxygen and cause rapid suffocation.
Harmful if inhaled.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))

Precautionary statements

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Section 2. Hazards identification

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention : Never Put cylinders into unventilated areas of passenger vehicles. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. Do not breathe gas. Use and store only outdoors or in a well ventilated place.

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Store locked up. Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : chloromethane

Other means of identification : methyl chloride; Methane, chloro-; Methane, chloro- (methyl chloride)

CAS number/other identifiers

CAS number : 74-87-3

Product code : 001036

Ingredient name	%	CAS number
chloromethane	100	74-87-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

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Section 4. First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
frostbite

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
frostbite

Ingestion : Adverse symptoms may include the following:
frostbite

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
chloromethane	**ACGIH TLV (United States, 3/2012).** **Absorbed through skin.** TWA: 50 ppm 8 hours. TWA: 103 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 207 mg/m³ 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** TWA: 50 ppm 8 hours. TWA: 105 mg/m³ 8 hours. STEL: 100 ppm 15 minutes. STEL: 210 mg/m³ 15 minutes. **OSHA PEL Z2 (United States, 11/2006).** TWA: 100 ppm 8 hours. CEIL: 200 ppm AMP: 300 ppm 5 minutes.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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Section 8. Exposure controls/personal protection

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Liquefied compressed gas.]

Color : Colorless.

Molecular weight : 50.49 g/mole

Molecular formula : C-H3-Cl

Boiling/condensation point : -23.7°C (-10.7°F)

Melting/freezing point : -97°C (-142.6°F)

Critical temperature : 143.65°C (290.6°F)

Odor : Mild. Sweetish.

Odor threshold : Not available.

pH : Not available.

Flash point : Closed cup: 10°C (50°F)

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Section 9. Physical and chemical properties

Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.
Lower and upper explosive (flammable) limits	:	Lower: 8.1% Upper: 17.4%
Vapor pressure	:	58.7 (psig)
Vapor density	:	1.8 (Air = 1)
Specific Volume (ft ^{3}/lb)	:	1.0977
Gas Density (lb/ft ^{3})	:	0.911 (25°C / 77 to °F)
Relative density	:	Not applicable.
Solubility	:	Not available.
Solubility in water	:	5.32 g/l
Partition coefficient: n-octanol/water	:	0.91
Auto-ignition temperature	:	632°C (1169.6°F)
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.
Incompatibility with various substances	:	Extremely reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	:	Under normal conditions of storage and use, hazardous polymerization will not occur.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
chloromethane	LC50 Inhalation Gas.	Rat	8300 ppm	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
chloromethane	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
chloromethane	Category 2	Not determined	central nervous system (CNS)

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Harmful if inhaled. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
frostbite

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Section 11. Toxicological information

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following: frostbite

Ingestion : Adverse symptoms may include the following: frostbite

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
chloromethane	Acute LC50 270000 µg/l Marine water	Fish - Menidia beryllina	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
chloromethane	0.91	-	low

Mobility in soil

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Section 12. Ecological information

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Methyl chloride (I,T); Methane, chloro- (I, T)	74-87-3	Listed	U045

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1063	UN1063	UN1063	UN1063	UN1063
UN proper shipping name	METHYL CHLORIDE, OR REFRIGERANT GAS R 40	METHYL CHLORIDE; OR REFRIGERANT GAS R 40	METHYL CHLORIDE, OR REFRIGERANT GAS R 40	METHYL CHLORIDE (REFRIGERANT GAS R 40)	METHYL CHLORIDE
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 100 lbs / 45.4 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 5 kg **Cargo aircraft** Quantity limitation: 100 kg	**Explosive Limit and Limited Quantity Index** 0.125 **ERAP Index** 3000 **Passenger Carrying Ship Index** Forbidden **Passenger Carrying Road or Rail Index** Forbidden	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 0 Forbidden **Cargo Aircraft Only** Quantity limitation: 100 kg

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Section 14. Transport information

	Special provisions				
	T50				

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Water Act (CWA) 307: chloromethane

Clean Air Act (CAA) 112 regulated toxic substances: chloromethane

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Sudden release of pressure
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
chloromethane	100	Yes.	Yes.	No.	Yes.	Yes.

SARA 313

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Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	chloromethane	74-87-3	100
Supplier notification	chloromethane	74-87-3	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
chloromethane	No.	Yes.	No.	No.

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class B-1: Flammable gas.
Class B-6: Reactive flammable material
Class D-2A: Material causing other toxic effects (Very toxic).

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

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Section 16. Other information

Canada Label requirements : Class A: Compressed gas.
Class B-1: Flammable gas.
Class B-6: Reactive flammable material
Class D-2A: Material causing other toxic effects (Very toxic).

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		4
Physical hazards		2

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 5/20/2015.

Date of issue/Date of revision : 5/20/2015.

Date of previous issue : 10/15/2014.

Version : 0.03

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

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Section 16. Other information

(EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 13-Sep-2013 **Revision Date** 21-Jul-2015 **Revision Number** 2

1. Identification

Product Name **Chromium**

Cat No. : **C318-500**

Synonyms Chrome

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Specific target organ toxicity (single exposure) Target Organs - Respiratory system.	Category 3

Label Elements

Signal Word
Warning

Hazard Statements
May cause respiratory irritation

Precautionary Statements
Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life

3. Composition / information on ingredients

Component	CAS-No	Weight %
Chromium	7440-47-3	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects None reasonably foreseeable.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media Carbon dioxide (CO_2)

Flash Point Not applicable
Method - No information available

Autoignition Temperature Not applicable
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture in air. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Chromium oxide
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Avoid dust formation. Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chromium	TWA: 0.5 mg/m^3	(Vacated) TWA: 1 mg/m^3 TWA: 1 mg/m^3	IDLH: 250 mg/m^3 TWA: 0.5 mg/m^3

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Chromium	TWA: 0.5 mg/m^3	TWA: 0.5 mg/m^3	TWA: 0.5 mg/m^3

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1857.2 °C / 3375 °F

Boiling Point/Range	2640 °C / 4784 °F
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Relative Density	7.2
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cr
Molecular Weight	51.996

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Sensitive to air.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials Strong oxidizing agents, Strong acids

Hazardous Decomposition Products Chromium oxide

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause irritation of respiratory tract

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Chromium	7440-47-3	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Chromium	Not listed	LC50: 14.3 mg/l/96 H (Pimephales promelas)	Not listed	EC50: 0.07 mg/l/48 H

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Proper technical name Chromium
Hazard Class 9
Packing Group III

TDG Not regulated

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S.
Hazard Class 9
Packing Group III

IATA

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s
Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077
Proper Shipping Name Environmentally hazardous substance, solid, n.o.s
Hazard Class 9
Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Chromium	X	X	-	231-157-5	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Chromium	7440-47-3	>95	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Chromium	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Chromium	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Chromium	5000 lb 10 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Chromium	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 13-Sep-2013
Revision Date 21-Jul-2015
Print Date 21-Jul-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 5.3
Revision Date 03/04/2015
Print Date 05/13/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Chrysene
Product Number	:	35754
Brand	:	Sigma-Aldrich
Index-No.	:	601-048-00-0
CAS-No.	:	218-01-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 1B), H350
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H341	Suspected of causing genetic defects.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{18}H_{12}$
Molecular weight	:	228.29 g/mol
CAS-No.	:	218-01-9
EC-No.	:	205-923-4
Index-No.	:	601-048-00-0

Hazardous components

Component	Classification	Concentration
Chrysene		
	Muta. 2; Carc. 1B; Aquatic Acute 1; Aquatic Chronic 1; H341, H350, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Polycyclic Aromatic Hydrocarbons (PAHs) Exposure by all routes should be carefully controlled to levels as low as possible. Confirmed animal carcinogen with unknown relevance to humans		
Chrysene	218-01-9	TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.200000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		1910.1002 As used in §1910.1000 (Table Z-1), coal tar pitch volatiles include the fused polycyclic hydrocarbons which volatilize from the distillation residues of coal, petroleum (excluding asphalt), wood, and other organic matter. Asphalt (CAS 8052-42-4, and CAS 64742-93-4) is not covered under the 'coal tar pitch volatiles' standard OSHA specifically regulated carcinogen		
		TWA	0.100000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen NIOSH considers coal tar, coal tar pitch, and creosote to be coal tar		

		products. cyclohexane-extractable fraction See Appendix C See Appendix A

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Chrysene	218-01-9	1-Hydroxypyrene (1-HP)		Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift at end of workweek			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 252 - 254 °C (486 - 489 °F) - lit.
f)	Initial boiling point and boiling range	448 °C (838 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	log Pow: 5.73
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - > 320 mg/kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
In vitro tests showed mutagenic effects

Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Chrysene)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	OSHA specifically regulated carcinogen (Chrysene)

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: GC0700000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.90 mg/l - 2 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Chrysene)
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chrysene)
Marine pollutant:yes
IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Chrysene)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date

Chrysene	218-01-9	1994-04-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Chrysene	218-01-9	1994-04-01

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Chrysene	CAS-No. 218-01-9	Revision Date 2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3 Revision Date: 03/04/2015 Print Date: 05/13/2016

SAFETY DATA SHEET

Creation Date 22-Sep-2009 **Revision Date** 10-Feb-2015 **Revision Number** 1

1. Identification

Product Name **cis-1,2-Dichloroethylene**

Cat No. : **AC113380000; AC113380025; AC113380100; AC113380500**

Synonyms cis-Acetylene dichloride.

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
Harmful if swallowed
Harmful if inhaled
Causes serious eye irritation
Causes skin irritation
May cause respiratory irritation

Precautionary Statements
Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Avoid breathing dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Take precautionary measures against static discharge
Do not eat, drink or smoke when using this product
Response
Call a POISON CENTER or doctor/physician if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Ingestion
Rinse mouth
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Fire
Explosion risk in case of fire
Fight fire with normal precautions from a reasonable distance
Evacuate area
Storage
Store in a well-ventilated place. Keep cool
Store in a closed container
Store locked up
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %
cis-1,2-Dichloroethylene	156-59-2	97

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO_2). Dry chemical. Use water spray to cool unopened containers. chemical foam.

Unsuitable Extinguishing Media No information available

Flash Point 6 °C / 42.8 °F
Method - No information available

Autoignition Temperature 440 °C / 824 °F
Explosion Limits
Upper 12.80%
Lower 9.70%
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Flammable. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	3	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing.

Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Ensure adequate ventilation. Wear personal protective equipment. Use explosion-proof equipment. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
cis-1,2-Dichloroethylene	TWA: 200 ppm		

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
cis-1,2-Dichloroethylene			TWA: 200 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-80 °C / -112 °F
Boiling Point/Range	60 °C / 140 °F @ 760 mmHg
Flash Point	6 °C / 42.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	12.80%
Lower	9.70%
Vapor Pressure	201 mmHg @ 25 °C
Vapor Density	3.34 (Air = 1.0)
Relative Density	1.280
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	440 °C / 824 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C2 H2 Cl2
Molecular Weight	96.94

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Exposure to air. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials Bases

Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
cis-1,2-Dichloroethylene	156-59-2	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains. Do not flush into surface water or sanitary sewer system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
cis-1,2-Dichloroethylene	Not listed	Not listed	EC50 = 721 mg/L 5 min EC50 = 905 mg/L 30 min	Not listed

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1150
Proper Shipping Name	1,2-DICHLOROETHYLENE
Hazard Class	3
Packing Group	II

TDG

UN-No	UN1150
Proper Shipping Name	1,2-DICHLOROETHYLENE
Hazard Class	3
Packing Group	II

IATA

UN-No	1150
Proper Shipping Name	1,2-DICHLOROETHYLENE
Hazard Class	3
Packing Group	II

IMDG/IMO

UN-No	1150
Proper Shipping Name	1,2-DICHLOROETHYLENE
Hazard Class	3
Packing Group	II

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
cis-1,2-Dichloroethylene	X	-	X	205-859-7	-		-	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes

Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
cis-1,2-Dichloroethylene	1000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
cis-1,2-Dichloroethylene	X	-	X	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B2 Flammable liquid
D1B Toxic materials
D2B Toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

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Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

COPPER

Section 1. Identification

GHS product identifier	:	COPPER
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC01053472
Product type	:	liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use	:	Industrial applications. Plastics.
Supplier's details	:	**POLYONE CORPORATION** ColorMatrix Group Inc. 680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA +1 216 622 0100
Emergency telephone number (with hours of operation)	:	**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	SKIN CORROSION/IRRITATION - Category 2

GHS label elements

Hazard pictograms :

Signal word : Warning
Hazard statements : Causes skin irritation.

Precautionary statements

General : Not applicable.
Prevention : Wear protective gloves. Wash hands thoroughly after handling.
Response : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label elements : None known.
Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : Mixture
Other means of identification : CC01053472

CAS number/other identifiers

Ingredient name	%	CAS number
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 30	Not available.
Titanium dioxide	5 - 10	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation

		watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium dioxide	**OSHA PEL 1989 (1989-03-01)** PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust **OSHA PEL (1993-06-30)** PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust **ACGIH TLV (1996-05-18)** TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated

clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : liquid [liquid]
Color : BROWN
Odor : Faint odor.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.
Flash point : Not available.
Burning time : Not available.

Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	**Lower:** Not available. **Upper:** Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	**Dynamic:** Not available. **Kinematic:** Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				

	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

Conclusion/Summary
Skin : Mixture.Not fully tested.
Eyes : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Sensitization

Conclusion/Summary
Skin : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium dioxide		2B	

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard

Product/ingredient name	Result

Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Mixture.Not fully tested.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	7.81 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Mummichog	96 h
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations : **United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
United States - TSCA 4(a) - Final Test Rules: Not listed
United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed

United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a)2 - Final significant new use rules: Not listed
United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed
United States - TSCA 6 - Final risk management: Not listed
United States - TSCA 6 - Proposed risk management: Not listed
United States - TSCA 8(a) - Chemical risk rules: Not listed
United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined
United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed
United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed
United States - TSCA 8(d) - Health and safety studies: Not listed
United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed
United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed
United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed
United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed
United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification	:	Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Classification
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 30	AH
Titanium dioxide	5 - 10	CH

SARA 313
Not applicable.

State regulations

Massachusetts : The following components are listed:
Mica
Iron oxide
Titanium dioxide

New York : None of the components are listed.

New Jersey : The following components are listed:
Mica
Iron oxide
Titanium dioxide

Pennsylvania : The following components are listed:
Iron oxide

Titanium dioxide

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory : All components are listed or exempted.

International regulations

International lists : **Australia inventory (AICS):** All components are listed or exempted.
Taiwan inventory (CSNN): Not determined.
Malaysia Inventory (EHS Register): Not determined.
EINECS: All components are listed or exempted.
Japan inventory: Not determined.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): All components are listed or exempted.

Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

Section 16. Other information

History

Date of printing	:	05/21/2015
Date of issue/Date of revision	:	05/18/2015
Date of previous issue	:	10/30/2014
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

Safety Data Sheet

Revision Date: 01/06/17
www.restek.com

1. IDENTIFICATION

Catalog Number / Product Name:	**31276 / Dibenzo(a,h)anthracene Standard**
Company:	Restek Corporation
Address:	110 Benner Circle Bellefonte, Pa. 16823
Phone#:	814-353-1300
Fax#:	814-353-1309
Emergency#:	800-424-9300 (CHEMTREC) 703-527-3887 (Outside the US)
Email:	www.restek.com
Revision Number:	7
Intended use:	For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols:

GHS Classification:	Carcinogenicity Category 2
GHS Signal Word:	Warning
GHS Hazard:	Suspected of causing cancer.
GHS Precautions:	
Safety Precautions:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container according to section 13 of the SDS.
Single Exposure Target Organs:	No data available.
Repeated Exposure Target Organs:	No data available.

3. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Name	CAS #	EINEC #	% Composition
Dichloromethane	75-09-2	200-838-9	99.900000
dibenz (a,h) anthracene	53-70-3	200-181-8	0.100000

4. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately
Eyes:	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician. Serious harm (damage) may result if treatment is delayed. Continue to flush eyes while awaiting medical attention
Skin Contact:	Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS. Never give anything by mouth to an unconscious person

5. FIRE- FIGHTING MEASURES

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid. Use methods suitable to fight surrounding fire.
Fire and/or Explosion Hazards:	No data.
Fire Fighting Methods and Protection:	Use methods for the surrounding fire.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.
Methods for Clean-up:	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions:	Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
Storage Technical Measures and Conditions:	Store in a cool dry place. Isolate from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

Chemical Name	CAS No.	IDLH	ACGIH STEL	ACGIH TLV-TWA	OSHA Exposure Limit
Dichloromethane	75-09-2	2300 ppm IDLH	No data available.	50 ppm TWA	25 ppm TWA; 125 ppm STEL (15 min. TWA)
dibenz (a,h) anthracene	53-70-3	No data available.	No data available.	No data available.	No data available.

Personal Protection:

Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection:	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying

	liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Medical Conditions Aggravated By Exposure:	Eye disease Skin disease including eczema and sensitization Respiratory disease including asthma and bronchitis

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, color:	Colorless
Odor:	Strong
Physical State:	No data available.
pH:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	2.93 (air = 1)
Boiling Point:	No data available.
Melting Point:	-96.7 °C
Flash Point:	No data available.
Upper Flammable/Explosive Limit, % in air:	No data available.
Lower Flammable/Explosive Limit, % in air:	No data available.
Autoignition Temperature:	556 deg C
Decomposition Temperature:	No data available.
Specific Gravity:	1.3254 - 1.3258 g/cm3 at 20 °C
Evaporation Rate:	No data available.
Odor Threshold:	ND
Solubility:	Moderate; 50-99%
Partition Coefficient: n-octanol in water:	No data available.
VOC % by weight:	0
Molecular Weight:	No data available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	No data available.Contamination High temperatures
Materials to Avoid / Chemical Incompatiability:	Strong oxidizing agents Caustics (bases)
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Routes of Entry:	Inhalation Absorption Ingestion Skin contact Eye contact
Target Organs Potentially Affected By Exposure:	Skin, Cardiovascular System, Eyes, Liver
Chemical Interactions That Change Toxicity:	None Known

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation:	Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.
Inhalation Toxicity:	Harmful! Can cause systemic damage (see "Target Organs)Inhalation may cause severe central nervous system depression (including unconsciousness).
Skin Contact:	Contact causes severe skin irritation and possible burns.
Skin Absorption:	Harmful if absorbed through the skin. May cause severe irritation and systemic damage.
Eye Contact:	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation:	Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.
Ingestion Toxicity:	Harmful if swallowed. May cause systemic poisoning.

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Contains a probable or known human carcinogen.
Reproductive and Developmental Toxicity:	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Inhalation:	Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.Harmful! Can cause systemic

damage upon prolonged and/or repeated exposure (see "Target Organs)

Skin Absorption: Upon prolonged or repeated exposure, harmful if absorbed through the skin. May cause severe irritation and systemic damage

Component Toxicological Data:
NIOSH:

Chemical Name	CAS No.	LD50/LC50
Methane, dichloro-	75-09-2	Inhalation LC50 Rat 53 mg/L 6 h

Component Carcinogenic Data:
OSHA:

Chemical Name	CAS No.	
Methylene chloride	75-09-2	25 ppm TWA (8 hr.); 125 ppm STEL (15 min.); 12.5 ppm Action Level (see 29 CFR 1910.1051); effective date for respiratory protection for certain employers to acheive the 8-hour TWA PEL is August 31, 1998; the start up date to install engineering controls is December 10, 1998.; {OSHA - 29 CFR 1910 Specifically Regulate
Dibenz[a,h]anthracene	53-70-3	Present

ACGIH:

Chemical Name	CAS No.	
Dichloromethane	75-09-2	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

NIOSH:

Chemical Name	CAS No.	
Methylene chloride	75-09-2	potential occupational carcinogen

NTP:

Chemical Name	CAS No.
No data available.	

IARC:

Chemical Name	CAS No.	Group No.
No data.		Group 1
Dichloromethane	75-09-2	Group 2A
Dibenz[a,h]anthracene	53-70-3	Group 2A
No data.		Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of waterways.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.
Disposal Methods: Incinerate spent or discarded material a permitted hazardous waste facility.
Waste Disposal of Packaging: Comply with all Local, State, Federal, and Provincial Environmental Regulations.

14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Dichloromethane
UN Number: UN1593
Hazard Class: 6.1
Packing Group: III

International:

IATA Proper Shipping Name:	Dichloromethane
UN Number:	UN1593
Hazard Class:	6.1
Packing Group:	III

Marine Pollutant: No

Chemical Name	CAS#	Marine Pollutant	Severe Marine Pollutant
No data available.			

15. REGULATORY INFORMATION

United States:

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
Dichloromethane	75-09-2	X	X	-	X
dibenz (a,h) anthracene	53-70-3	X	X	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation
Dichloromethane Dichloromethane (Methylene chloride)	75-09-2	Prop 65 Cancer
Dibenz[a,h]anthracene	53-70-3	Prop 65 Cancer

State Right To Know Listing:

Chemical Name	CAS#	New Jersey	Massachusetts	Pennsylvania	California
Dichloromethane	75-09-2	X	X	X	X
dibenz (a,h) anthracene	53-70-3	X	X	X	X

16. OTHER INFORMATION

Prior Version Date: 05/15/14

Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available.

Disclaimer: Restek Corporation provides the descriptions, data and information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. It is provided for your guidance only. Because many factors may affect processing or application/use, Restek Corporation recommends you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding prodcuts described, data or information set forth. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.

SAFETY DATA SHEET

Version 5.5
Revision Date 05/27/2016
Print Date 07/04/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Dieldrin
Product Number	:	33491
Brand	:	Sigma-Aldrich
Index-No.	:	602-049-00-9
CAS-No.	:	60-57-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 1), H310
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Oral (Category 1), H372
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H300 + H310	Fatal if swallowed or in contact with skin
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P350 + P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	1,2,3,4,10,10-Hexachloro-1,4,4a,5,6,7,8,8a-octahydro-6,7-epoxy-1,4:5,8-dimethanonaphthalene
Formula	:	$C_{12}H_8Cl_6O$
Molecular weight	:	380.91 g/mol
CAS-No.	:	60-57-1
EC-No.	:	200-484-5
Index-No.	:	602-049-00-9

Hazardous components

Component	Classification	Concentration
Dieldrin		
	Acute Tox. 2; Acute Tox. 1; Carc. 2; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310, H351, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Dieldrin	60-57-1	TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans		

		Danger of cutaneous absorption		
		TWA	0.250000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.250000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Liver damage Reproductive effects Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption		
		TWA	0.25 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A Potential for dermal absorption		
		TWA	0.25 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Skin designation		
		TWA	0.25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		Skin notation		
		PEL	0.25 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		Skin		

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 143 - 144 °C (289 - 291 °F) - lit.
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 38.3 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Ingestion - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: IO1750000

Discomfort, Headache, Nausea, Vomiting, Dizziness, Tremors, tonic convulsions, clonic spasms, Coma., respiratory failure, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Blood - Irregularities - Based on Human Evidence
Blood - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	mortality LC50 - Carassius auratus (goldfish) - 1.6 µg/l - 96.0 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 79.5 µg/l - 48 h

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2811 Class: 6.1 Packing group: I
Proper shipping name: Toxic solids, organic, n.o.s. (Dieldrin)
Reportable Quantity (RQ): 1 lbs
Marine pollutant:yes
Poison Inhalation Hazard: No

IMDG
UN number: 2811 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Dieldrin)

Marine pollutant:yes

IATA

UN number: 2811 Class: 6.1 Packing group: I

Proper shipping name: Toxic solid, organic, n.o.s. (Dieldrin)

IATA Passenger: Not permitted for transport

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Dieldrin	60-57-1	1993-04-24

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Dieldrin	60-57-1	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H300	Fatal if swallowed.
H300 + H310	Fatal if swallowed or in contact with skin
H310	Fatal in contact with skin.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.

HMIS Rating

Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	4
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 05/27/2016 Print Date: 07/04/2016

SAFETY DATA SHEET

Version 5.7
Revision Date 06/03/2016
Print Date 07/04/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Diesel Fuel No. 2
Product Number	:	UST147
Brand	:	Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Carcinogenicity (Category 2), H351
Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336
Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Blood, H373
Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Warning

Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (Liver, Blood) through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Component		Classification	Concentration
Methylene chloride			
CAS-No. EC-No. Index-No.	75-09-2 200-838-9 602-004-00-3	Skin Irrit. 2; Eye Irrit. 2A; Carc. 2; STOT SE 3; STOT RE 2; H315, H319, H335, H336, H351, H373, H373	>= 90 - <= 100 %
Fuels, diesel, no. 2			
CAS-No. EC-No. Index-No.	68476-34-6 270-676-1 649-227-00-2	Flam. Liq. 4; Carc. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 2; H227, H304, H336, H351, H411	>= 0.1 - < 1 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Move out of dangerous area.Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store at Room Temperature.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
	Remarks	Potential Occupational Carcinogen See Appendix A		
Methylene chloride	75-09-2	TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Carboxyhemoglobinemia Substances for which there is a Biological Exposure Index or Indices (see BEI® section)		

		Confirmed animal carcinogen with unknown relevance to humans		
		TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Carboxyhemoglobinemia Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans		
		Substance listed; for more information see OSHA document 1910.1052		
		Substance listed; for more information see OSHA document 1910.1052		
		See Table Z-2		
		PEL	25.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
		1910.1052 This section applies to all occupational exposures to methylene chloride (MC), Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula, CH2Cl2. Its Chemical Abstracts Service Registry Number is 75-09-2. Its molecular weight is 84.9 g/mole OSHA specifically regulated carcinogen		
		STEL	125.000000 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
		1910.1052 This section applies to all occupational exposures to methylene chloride (MC), Chemical Abstracts Service Registry Number 75-09-2, in general industry, construction and shipyard employment. Methylene chloride (MC) means an organic compound with chemical formula, CH2Cl2. Its Chemical Abstracts Service Registry Number is 75-09-2. Its molecular weight is 84.9 g/mole OSHA specifically regulated carcinogen		
		PEL	25 ppm 87 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		see section 5202		
		STEL	125 ppm 435 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
		see section 5202		
Fuels, diesel, no. 2	68476-34-6	TWA	100.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermatitis Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption varies		
		TWA	100.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermatitis Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption varies		
		TWA	100 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermatitis Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption varies		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Methylene chloride	75-09-2	Dichloromethane	0.3000 mg/l	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available

n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas
Hazardous decomposition products formed under fire conditions. - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: OSHA specifically regulated carcinogen (Methylene chloride)

Reproductive toxicity
No data available
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1593 Class: 6.1 Packing group: III
Proper shipping name: Dichloromethane, solution
Reportable Quantity (RQ): 10 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1593 Class: 6.1 Packing group: III EMS-No: F-A, S-A

Proper shipping name: DICHLOROMETHANE, SOLUTION

IATA
UN number: 1593 Class: 6.1 Packing group: III
Proper shipping name: Dichloromethane, solution

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Methylene chloride	75-09-2	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Methylene chloride	75-09-2	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Methylene chloride	75-09-2	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Methylene chloride	75-09-2	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs (/$/*_2ORG_REP_ORA/$/) through prolonged or repeated exposure if swallowed.
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating
Health hazard: 2
Chronic Health Hazard: *

Flammability:	0
Physical Hazard	1

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.7 Revision Date: 06/03/2016 Print Date: 07/04/2016

SAFETY DATA SHEET

Creation Date 06-Aug-2010 **Revision Date** 30-Oct-2014 **Revision Number** 2

1. Identification

Product Name **Ethylbenzene**

Cat No. : **AC433800000; AC433800010; AC433801000**

Synonyms Ethylbenzol; Phenylethane

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 2
Acute Inhalation Toxicity - Vapors	Category 4
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Aspiration Toxicity	Category 1

Label Elements

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
Fire
In case of fire: Use CO_2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Ethylbenzene	100-41-4	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention. Aspiration into lungs can produce severe lung damage.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting. Call a physician or Poison Control Center immediately. If vomiting occurs naturally, have victim lean forward.

Most important symptoms/effects Breathing difficulties. . Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: May cause central nervous system depression

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

Flash Point 15 °C / 59 °F
Method - No information available

Autoignition Temperature 432 °C / 810 °F
Explosion Limits
Upper 6.8%
Lower 1.2%
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge Yes

Specific Hazards Arising from the Chemical
Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylbenzene	TWA: 20 ppm	(Vacated) TWA: 100 ppm (Vacated) TWA: 435 mg/m^3 (Vacated) STEL: 125 ppm (Vacated) STEL: 545 mg/m^3 TWA: 100 ppm TWA: 435 mg/m^3	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Ethylbenzene	TWA: 100 ppm TWA: 434 mg/m^3 STEL: 125 ppm STEL: 543 mg/m^3	TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3	TWA: 20 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-95 °C / -139 °F
Boiling Point/Range	136 °C / 276.8 °F
Flash Point	15 °C / 59 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	6.8%
Lower	1.2%
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	0.860
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available

Autoignition Temperature 432 °C / 810 °F
Decomposition Temperature No information available
Viscosity No information available
Molecular Formula C8 H10
Molecular Weight 106.17

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylbenzene	3500 mg/kg (Rat)	15400 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause eye, skin, and respiratory tract irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Ethylbenzene	100-41-4	Group 2B	Not listed	A3	X	Not listed

IARC: (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)
STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: May cause central nervous system depression

Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethylbenzene	2.6 - 11.3 mg/L EC50 72 h 438 mg/L EC50 > 96 h 4.6 mg/L EC50 = 72 h 1.7 - 7.6 mg/L EC50 96 h	9.6 mg/L LC50 96 h 9.1 - 15.6 mg/L LC50 96 h 32 mg/L LC50 96 h 7.55 - 11 mg/L LC50 96 h 4.2 mg/L LC50 96 h 11.0 - 18.0 mg/L LC50 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	1.8 - 2.4 mg/L EC50 48 h

Persistence and Degradability Insoluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

Component	log Pow
Ethylbenzene	3.118

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No UN1175
Proper Shipping Name ETHYLBENZENE
Hazard Class 3
Packing Group II

TDG

UN-No UN1175
Proper Shipping Name ETHYLBENZENE
Hazard Class 3
Packing Group II

IATA

UN-No UN1175
Proper Shipping Name ETHYLBENZENE
Hazard Class 3
Packing Group II

IMDG/IMO

UN-No UN1175
Proper Shipping Name ETHYLBENZENE
Hazard Class 3
Packing Group II

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed The product is classified and labeled

according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethylbenzene	X	X	-	202-849-4	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylbenzene	100-41-4	>95	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Ethylbenzene	X	1000 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Ethylbenzene	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ethylbenzene	1000 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Ethylbenzene	100-41-4	Carcinogen	54 µg/day 41 µg/day	Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylbenzene	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class B2 Flammable liquid
D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 06-Aug-2010
Revision Date 30-Oct-2014
Print Date 30-Oct-2014
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.17
Revision Date 03/03/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Trichlorofluoromethane
Product Number	:	254991
Brand	:	Aldrich
CAS-No.	:	75-69-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Dermal (Category 4), H312

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Warning
Hazard statement(s)	
H312	Harmful in contact with skin.
Precautionary statement(s)	
P280	Wear protective gloves/ protective clothing.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	Fluorotrichloromethane CFC-11

Formula	:	CCl_3F CCl_3F
Molecular weight	:	137.37 g/mol
CAS-No.	:	75-69-4
EC-No.	:	200-892-3

Hazardous components

Component	Classification	Concentration
Trichlorofluoromethane		
	Acute Tox. 4; H312	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Carbon oxides, Hydrogen chloride gas, Hydrogen fluoride

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Contents under pressure.
Storage class (TRGS 510): Non Combustible Liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Trichlorofluoromethane	75-69-4	C	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Cardiac sensitization Not classifiable as a human carcinogen		
		C	1,000.000000 ppm 5,600.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000.000000 ppm 5,600.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 480 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.2 mm
Break through time: 30 min

Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-110.99 - -109.99 °C (-167.78 - -165.98 °F)
f)	Initial boiling point and boiling range	23.7 °C (74.7 °F) - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	885.7 hPa (664.3 mmHg) at 20.0 °C (68.0 °F) 2,701.2 hPa (2,026.1 mmHg) at 55.0 °C (131.0 °F)
l)	Vapour density	No data available
m)	Relative density	1.494 g/cm3 at 25 °C (77 °F)
n)	Water solubility	1 g/l
o)	Partition coefficient: n-octanol/water	log Pow: 2.53
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available

t) Oxidizing properties No data available

9.2 Other safety information

Surface tension 18.0 mN/m at 25.0 °C (77.0 °F)

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Sodium/sodium oxides, Potassium, Magnesium, Aluminum, Zinc

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - > 15,000 mg/kg

LC50 Inhalation - Rat - 0.3 h - 130000 ppm
Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Respiratory disorder

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: PB6125000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Nausea, Dizziness, Headache, Vomiting, Diarrhoea, Abdominal pain, Weakness, Unconsciousness

Liver -

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3082 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Trichlorofluoromethane)
Reportable Quantity (RQ): 5000 lbs

Poison Inhalation Hazard: No

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Trichlorofluoromethane	75-69-4	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
H312	Harmful in contact with skin.

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.17 Revision Date: 03/03/2015 Print Date: 05/01/2016

SAFETY DATA SHEET

Halocarbon R-12 (Dichlorodifluoromethane)

Section 1. Identification

GHS product identifier : Halocarbon R-12 (Dichlorodifluoromethane)

Chemical name : dichlorodifluoromethane

Other means of identification : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

Product use : Synthetic/Analytical chemistry.

Synonym : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

SDS # : 001018

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

Emergency telephone number (with hours of operation) : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : GASES UNDER PRESSURE - Liquefied gas
HAZARDOUS TO THE OZONE LAYER - Category 1

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : Contains gas under pressure; may explode if heated.
May cause frostbite.
May displace oxygen and cause rapid suffocation.
Harms public health and the environment by destroying ozone in the upper atmosphere.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.

Prevention : Use and store only outdoors or in a well ventilated place.

Response : Not applicable.

Storage : Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Refer to manufacturer/supplier for information on recovery/recycling.

Powered by IHS

Section 2. Hazards identification

Hazards not otherwise classified : Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : dichlorodifluoromethane

Other means of identification : ASPEN R-12, Methane, dichlorodifluoro-; Refrigerant 12; Propellant 12; Halon 122; Genetron 12; Freon 12; Fluorocarbon 12; Difluorodichloromethane; DICHLORODIFLUOROMETHANE (FC 12); CFC-12

CAS number/other identifiers

CAS number : 75-71-8

Product code : 001018

Ingredient name	%	CAS number
Methane, dichlorodifluoro-	100	75-71-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when released, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Powered by IHS

Section 4. First aid measures

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
frostbite

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
frostbite

Ingestion : Adverse symptoms may include the following:
frostbite

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Powered by IHS

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Avoid release to the environment. Refer to special instructions/safety data sheet. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Methane, dichlorodifluoro-	**ACGIH TLV (United States, 3/2012).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **NIOSH REL (United States, 1/2013).** TWA: 4950 mg/m³ 10 hours. TWA: 1000 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 4950 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9. Physical and chemical properties

Appearance

Physical state	:	Gas. [Liquefied gas]
Color	:	Colorless.
Molecular weight	:	120.91 g/mole
Molecular formula	:	C-Cl2-F2
Boiling/condensation point	:	-29.8°C (-21.6°F)
Melting/freezing point	:	-158°C (-252.4°F)
Critical temperature	:	111.85°C (233.3°F)
Odor	:	Characteristic.
Odor threshold	:	Not available.
pH	:	Not available.
Flash point	:	[Product does not sustain combustion.]
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	84.9 (psia)
Vapor density	:	4.2 (Air = 1)
Specific Volume (ft ^{3}/lb)	:	3.1746
Gas Density (lb/ft ^{3})	:	0.315
Relative density	:	Not applicable.
Solubility	:	Not available.
Solubility in water	:	0.3 g/l
Partition coefficient: n-octanol/water	:	2.16
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not applicable.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	No specific data.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 10. Stability and reactivity

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Liquid can cause burns similar to frostbite.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact : Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.

Ingestion : Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
frostbite

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
frostbite

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Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following: frostbite

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Methane, dichlorodifluoro-	2.16	6.17	low

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Dichlorodifluoromethane; Methane, dichlorodifluoro-	75-71-8	Listed	U075

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1028	UN1028	UN1028	UN1028	UN1028
UN proper shipping name	DICHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE; OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 12	DICHLORODIFLUOROMETHANE (REFRIGERANT GAS R 12)	DICHLORODIFLUOROMETHANE
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Reportable quantity** 5000 lbs / 2270 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. **Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg **Special provisions** T50	**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 75 kg **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

TSCA 12(b) annual export notification: dichlorodifluoromethane

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Methane, dichlorodifluoro-	100	No.	Yes.	No.	No.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	dichlorodifluoromethane	75-71-8	100
Supplier notification	dichlorodifluoromethane	75-71-8	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

New York : This material is listed.

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Section 15. Regulatory information

New Jersey : This material is listed.

Pennsylvania : This material is listed.

Canada inventory : This material is listed or exempted.

International regulations

International lists : **Australia inventory (AICS)**: This material is listed or exempted.
China inventory (IECSC): This material is listed or exempted.
Japan inventory: This material is listed or exempted.
Korea inventory: This material is listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.
Philippines inventory (PICCS): This material is listed or exempted.
Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

Canada

WHMIS (Canada) : Class A: Compressed gas.
CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	0
Physical hazards	2

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Section 16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 5/21/2015.

Date of issue/Date of revision : 5/21/2015.

Date of previous issue : 5/21/2015.

Version : 2

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United NationsACGIH – American Conference of Governmental Industrial Hygienists
AIHA – American Industrial Hygiene Association
CAS – Chemical Abstract Services
CEPA – Canadian Environmental Protection Act
CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)
CFR – United States Code of Federal Regulations
CPR – Controlled Products Regulations
DSL – Domestic Substances List
GWP – Global Warming Potential
IARC – International Agency for Research on Cancer
ICAO – International Civil Aviation Organisation
Inh – Inhalation
LC – Lethal concentration
LD – Lethal dosage
NDSL – Non-Domestic Substances List
NIOSH – National Institute for Occupational Safety and Health
TDG – Canadian Transportation of Dangerous Goods Act and Regulations
TLV – Threshold Limit Value
TSCA – Toxic Substances Control Act
WEEL – Workplace Environmental Exposure Level
WHMIS – Canadian Workplace Hazardous Material Information System

References : Not available.

Indicates information that has changed from previously issued version.

Other special considerations : WARNING: Contains (Dichlorodifluoromethane), a substance which harms the public health and environment by destroying ozone in the upper atmosphere.

Notice to reader

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Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

1. IDENTIFICATION

Product Identifier	No. 2 Fuel Oil
Synonyms:	No. 2 Heating Oil, #2 Fuel Oil, Heating Oil Plus™, Low Sulfur Heating Oil (LSHO), Ultra Low Sulfur Heating Oil (ULSHO)
Intended use of the product:	Fuel
Contact:	Global Companies LLC Water Mill Center 800 South St. Waltham, MA 02454-9161 www.globalp.com
Contact Information:	EMERGENCY TELEPHONE NUMBER (24 hrs.): CHEMTREC (800) 424-9300 COMPANY CONTACT (business hours): 800-542-0778

2. HAZARD IDENTIFICATION

According to OSHA 29 CFR 1910.1200 HCS

Classification of the Substance or Mixture

Classification (GHS-US):

Flam. Liquid	Category 3	H226
Skin Corrosion/Irritation	Category 2	H315
Aspiration Hazard	Category 1	H304
Acute toxicity – Inhalation	Category 4	H332
STOT SE	Category 3	H336
Carcinogenicity	Category 2	H350
Aquatic Chronic	Category 2	H411
Eye damage/Irritation	Category 2	H319

Labeling Elements

Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):
H226 – Flammable liquid and vapor.
H315 – Causes Skin irritation.
H304 – May be fatal if swallowed and enters airways.
H332—Harmful if inhaled.
H336 – May cause drowsiness or dizziness.
H350 – May cause cancer.
H411 – Toxic to aquatic life with long lasting effects.
H319 – May cause eye damage/irritation.

Precautionary Statements (GHS-US):
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.

P241 – Use explosion-proof electrical/ventilating/lighting equipment pursuant to applicable electrical code.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash skin thoroughly after handling.
P271 – Use only outdoors or in a well-ventilated area.
P273 – Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower.
P308+311 - If exposed or concerned: Get medical advice/attention.
P301+310 - If swallowed: Immediately call a poison center/doctor/…
P331 - Do NOT induce vomiting.
P370+P378 – In case of fire use firefighting foam or other appropriate media for Class B fires to extinguish.
P403+235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 – Dispose of contents/container in accordance with local/regional/national/international regulation.

Other information:

NFPA 704
Health: 1
Fire: 2
Reactivity: 0

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Composition Information
Mixture

Name	Product Identifier (CAS#)	% (w/w)	Classification
No. 2 Fuel Oil	68476-30-2	95-100	Flam Liq. 3, H226; Skin Irrit. 2, H315; Aspiration 1, H304; STOT SE 3, H336; Carc.2. H350; Aquatic chronic 2, H411
Methyl Esters	N/A	0-5	N/A
Naphthalene	91-20-3	0.1	Carc. 2, H351; Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H411

Additional Formulation Information:
No. 2 Fuel Oil consists of C9+ hydrocarbons resulting from distillation of crude oil.

Low Sulfur Heating Oil typically contains less than 500 ppm of sulfur

Ultra Low Sulfur Heating Oil typically contains less than 15 ppm of sulfur

4. FIRST AID MEASURES

Route	Measures
Inhalation	Remove person to fresh air. If person is not breathing, ensure an open airway and provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.
Ingestion	Aspiration Hazard: DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Ingestion may cause gastrointestinal disturbances including irritation, nausea, vomiting, and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory failure, and death.
Eye Contact	In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention. In case of contact lenses, remove immediately.
Skin Contact	Remove contaminated clothing and shoes. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops. Thermal burns require immediate medical attention depending on the severity and of the area of the body burned.

Most Important Symptoms
Contact with eyes and face may cause irritation. Long-term exposure may cause dermatitis (itching, irritation, pain and swelling).

Inhalation may cause irritation and significant or long term exposure could cause respiratory insufficiency and pulmonary edema.

Ingestion may cause aspiration, gastrointestinal disturbance, and CNS effects.

Immediate Medical Attention and Special Treatment
For contact with skin or eyes, immediately wash or flush contaminated eyes with gently flowing water. If possible, irrigate each eye continuously with 0.9% saline (NS). If ingested, rinse mouth. Do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

If inhaled, administer oxygen or establish a patent airway if breathing is labored. Suction if necessary. Monitor closely, anticipate seizures. Consider orotracheal or nostracheal intubation of airway control if patient is unconscious or is in severe respiratory distress.

Discard any clothing or shoes contaminated as they may be flammable.

5. FIRE-FIGHTING MEASURES

Extinguishing Media
Foam, carbon dioxide, dry chemical are most suitable

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, C02, water spray, firefighting foam, or Halon. Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other firefighting equipment.

LARGE FIRES: Foam, carbon dioxide, dry chemical. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Specific Hazards / Products of Combustion
Moderate fire hazard when exposed to heat or flame with a very low flash point. Product is flammable and easily ignited when exposed to heat, spark, open flame or other source of ignition. Flowing product may be ignited by self-generated static electricity. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

Combustion may produce smoke, carbon monoxide and other products of incomplete combustion.

Special Precautions and Protective Equipment for Firefighters
Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water.

For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam.

Fighting Equipment/Instructions
Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH- approved pressure-demand self-contained breathing apparatus with full face piece and protective clothing.

Refer to Section 9 for fire properties of this chemical including flash point, auto ignition temperature, and explosive limits.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY SPCC, SPILL CONTINGENCY or EMERGENCY PLAN.

Personal Precautions
Due to high vapor density, flammable / toxic vapors may be present in low lying areas, dikes, pits, drains, or trenches. Vapors may accumulate in low lying areas and reach ignitable concentrations. Ventilate the area. Use of non-sparking tools and intrinsically safe equipment is recommended. Potential for flammable atmosphere should be monitored using a combustible gas indicator positioned downwind of the spill area. Refer to Sections 2 and 7 for further hazard warnings and handling instructions.

Use appropriate personal protective equipment to prevent eye/skin contact and absorption. Use NIOSH approved respiratory protection, if warranted, to prevent exposures above permissible limits. Refer to Section 8. Contaminated clothing should not be near sources of ignition.

Emergency Measures
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Consider wind direction. Secure all ignition sources (flame, spark, hot work, hot metal, etc.) from area. Evaluate the direction of product travel, diking sewers, etc. to confirm spill areas. Do not touch or walk-through spilled material. For large spills, isolate initial action distance downwind 1,000 ft. (300 m).

Environmental Precautions
Stop the spill to prevent environmental release if it can be done safely. Product is toxic to aquatic life. Take action to isolate environmental receptors including drains, storm sewers and natural water bodies. Keep on impervious surface if at all possible. Use water sparingly to prevent product from spreading. Foam and absorbents may be used to reduce / prevent airborne release.

Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Follow federal, state or local requirements for reporting environmental release where necessary. Refer to Section 15 for further information.

Containment and Clean-Up Methods
Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of firefighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with dry earth, sand or other non-combustible, inert oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container with clean, non-sparking tools for reclamation or disposal. Response and cleanup crews must be properly trained and must utilize proper protective equipment. Refer to Section 8 for appropriate protective equipment.

7. HANDLING AND STORAGE

USE ONLY AS A FUEL.
DO NOT SIPHON BY MOUTH.

Handling Precautions
Handle as a flammable liquid. Keep away from heat, sparks, and open flame. No smoking. Electrical equipment should be approved for classified area. Bond and ground containers during product transfer pursuant to NFPA 70 and API RP 2003 to

reduce the possibility of static-initiated fire or explosion. Follow precautions to prevent static initiated fire.

Use good personal hygiene practices. Use only with protective equipment specified in Section 8. Avoid repeated and/or prolonged skin exposure. Use only outdoors or in well ventilated areas. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API RP 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."

Storage
Large quantities of fuel oil are stored in tanks or portable containers at an ambient storage temperature. Separate from incompatible chemicals (Refer to Section 10) by distance or secondary containment. Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers that are clearly labeled. Label all secondary containers that this material is transferred into with the chemical name and associated hazard(s). Empty product containers or vessels may contain flammable vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Storage tanks should have a venting system. If stored in small containers, the area should be well ventilated, away from ignition sources and protected from potential damage or vehicular traffic. Post “No Smoking” signs in product storage areas. This storage area should comply with NFPA 30 “Flammable and Combustible Liquid Code” or applicable building code. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 “Cleaning Mobile Tanks in Flammable and Combustible Liquid Service” and API RP 2015 “Safe Entry and Cleaning of Petroleum Storage Tanks”.

Incompatibles
Keep away from strong oxidizers, ignition sources and heat.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Component	CAS #	List	Value
No. 2 Fuel Oil	68476-30-2	ACGIH TLV-TWA	100 mg/m3*
Naphthalene	91-20-3	ACGIH TLV-TWA OSHA PEL ACGIH STEL	10 ppm 10 ppm 15 ppm

*Critical effects; Skin; A3; CNS impairment.

Engineering Controls
Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Intrinsically safe equipment and non-sparking tools shall be used in circumstances where concentrations may exceed lower flammable limits. Grounding and bonding shall be used to prevent accumulation and discharge of static electricity. Emergency shower and eyewash should be provided in proximity to handling areas in the event of exposure to decontaminate.

Personal Protective Equipment

Exposure	Equipment
Eye / Face	Wear appropriate chemical protective glasses or goggles or face shields to prevent skin and eye contact especially caused from splashing.
Skin	Wear appropriate personal protective clothing to prevent skin contact. Gloves constructed of nitrile, neoprene or PVC are recommended when handling this material. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure.

Exposure	Equipment
Respiratory	A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection and limitations. Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.
Thermal	Product is stored at ambient temperature. No thermal protection is required except for emergency operations involving actual or potential for fire. Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	
Appearance	Clear or straw-colored liquid dyed red for distribution	
Odor	Mild petroleum distillate odor.	
Odor Threshold	<1 ppm	
pH	Not available	
Melting Point	-15 ˚F (-26 ˚C)	
Boiling Point Range	320 to 690 ˚F (160 to 366 ˚C)	
Flash Point	>125.6 ˚F (52 ˚C) PMCC	
Evaporation Rate	Slow, varies with conditions	
Flammability	Flammable liquid	
Flammable Limits	0.6 % - 7.5%	
Vapor Pressure	0.009 psia @ 70 ˚F	
Vapor Density	>1	(air=1)
Specific Gravity	0.81-0.88 @ 60 ˚F (16 ˚C)	(water=1)
Solubility	Insoluble in water; miscible with other petroleum solvents.	
Partition Coefficient (N-octanol/water)	Log Kow range of 3.3 to >.6.0	
Autoignition Temperature	494 ˚F (257 ˚C)	
Decomposition Temperature	When heated it emits acrid smoke and irritating vapors.	
Viscosity	>3 cSt	
Percent Volatiles	95-100	

10. STABILITY AND REACTIVITY

Stability
This is a stable material that is flammable liquid (OSHA/GHS hazard category 3). Stable during transport.

Reactivity
Material is not self-reacting. Flammable concentrations may be present in air. Compound can react with oxidizing materials.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Incompatibility
Keep away from strong oxidizers such as nitric and sulfuric acids.

Conditions to Avoid
Avoid high temperatures, open flames, sparks, static electricity, welding, smoking and other ignition sources.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Acute Toxicity (Inhalation LC50)

No. 2 Fuel Oil (68476-30-2)
LC50 Inhalation Rat >4.6 mg/l/4h

Acute Toxicity (Dermal LD50)

No. 2 Fuel Oil (68476-30-2)
LD50 Dermal Rabbit >2000 mg/kg

Acute Toxicity (Oral LD50)

No. 2 Fuel Oil (68476-30-2)
LD50 Oral Rat >12000 mg/kg

Acute Toxicity (Oral LD50)

Methyl Esters
LD50 Oral Rat >14400 mg/kg

Skin Corrosion/Irritation: Prolonged and repeated contact may cause skin irritation leading to dermatitis. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are exposed repeatedly.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: OSHA: NO, IARC: Group 3, NTP: NO, ACGIH: NOIC:A3, NIOSH: NO

IARC: Group 3 – Not classifiable as to their carcinogenicity to humans ACGIH: A3 – Confirmed animal carcinogen with unknown relevance to humans

Petroleum middle distillates have been shown to produce skin tumors in laboratory animals following repeated and prolonged exposures. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates (byproduct of combustion of this material) carcinogenic to humans (Group 1) and NIOSH regards diesel fuel exhaust particulate as a potential occupational carcinogen.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Specific Target Organ Toxicity (Single Exposure): Inhalation exposure may cause drowsiness or dizziness by inhalation exposure.

Aspiration Hazard: The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

Potential Health Effects: Vapor irritating to skin, eyes, nose, and throat. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

WARNING: The burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

12. ECOLOGICAL INFORMATION

Toxicity
This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Data for Component: No. 2 Fuel Oil (68476-30-2)

Material is toxic to aquatic organisms based on an acute basis (LC50/EC50 >1 but ≤ 10 mg/L in the most sensitive species tested).

Material is a long-term aquatic hazard based on a chronic basis (LC50/EC50 >1 but ≤ 10 mg/L in the most sensitive species tested).

Persistence and Degradation: This material is not expected to be readily biodegradable.

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Other Adverse Effects: None known

Other Information: Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options. May be considered a hazardous waste if disposed. Direct solid waste (landfill) or incineration at a solid waste facility is not permissible. Do not discharge to sanitary or storm sewer. Personnel handling waste containers should follow precautions provided in this document.

Shipping containers must be DOT authorized packages. Follow licensure and regulations for transport of hazardous material and hazardous waste as applicable.

14. TRANSPORT INFORMATION

US DOT

UN Identification Number	NA 1993
Proper Shipping Name	Fuel oil (No. 2)
Hazard Class and Packing Group	3, PGIII
Shipping Label	Combustible liquid
Placard / Bulk Package	Combustible liquid, 1993
Emergency Response Guidebook Guide Number	128

IATA Information

UN Identification Number	UN 1993
Proper Shipping Name	Fuel oil (No. 2)
Hazard Class and Packing Group	3, PGIII
ICAO Label	3
Packing Instructions Cargo	355
Max Quantity Per Package Cargo	220L
Packing Instructions Passenger	344Y
Max Quantity per Package	60L

ICAO

UN Identification Number	UN 1993
Shipping Name / Description	Fuel oil (No. 2)
Hazard Class and Packing Group	3, PG III
IMDG Label	3

IMDG

UN Identification Number	UN 1993
Shipping Name / Description	Heating Oil, Light
Hazard Class and Packing Group	3, PGIII
IMDG Label	3
EmS Number	N/A
Marine Pollutant	Yes

15. REGULATORY INFORMATION

U.S. Federal, State, and Local Regulatory Information
Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state, or local regulations; consult those regulations applicable to your facility/operation.

OSHA Hazard Communication Standard
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning And Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	Yes
Delayed (Chronic) Health Hazard	Yes
Fire Hazard	Yes
Reactive Hazard	No
Sudden Release of Pressure Hazard	No

Clean Water Act (Oil Spills)
Any spill or release of this product to “navigable waters” (Essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA Section 103 and SARA Section 304 (Release to the Environment)
The CERCLA definition of hazardous substances contains a “petroleum exclusion” clause which exempts this material. This product does not contain any chemicals subject to the reporting requirements of CERCLA Section 103 or SARA 304.

SARA Section 313- Supplier Notification
This product does not contain any chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

EPA Notification (Oil Spills)
If the there is a discharge of more than 1,000-gallons of oil into or upon navigable waters of the United States, or if it is the second spill event of 42 gallons or more of oil into water within a twelve (12) month period, a written report must be submitted to the Regional Administrator of the EPA within sixty days of the event.

Pennsylvania Right to Know Hazardous Substance list:
The following product components are cited in the Pennsylvania Special Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
No. 2 Fuel Oil	68476-30-2	100%

New Jersey Right to Know Hazardous Substance list:
The following product components are cited in the New Jersey Right to Know Hazardous Substance List, and are present at levels which require reporting.

Component	CAS	Amount
No. 2Fuel Oil	68476-30-2	100%

California Proposition 65 WARNING: This product contains chemicals known to the State of California to cause Cancer or Reproductive Toxicity.

Component	CAS	Amount
Naphthalene	91-20-3	<0.1%

U.S. Toxic Substances Control Act
All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

CEPA - Domestic Substances List (DSL)
All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Canadian Regulatory Information (WHMIS)
Class B3 – Combustible Liquid
Class D2A – Materials causing other toxic effects. (Very Toxic)

16. OTHER INFORMATION

Version	4
Issue Date	May 20, 2016
Prior Issue Date	May 3, 2015

Description of Revisions
Revised to meet Globally Harmonized System for chemical hazard communication requirements pursuant to OSHA regulatory revisions 77 FR 17884, March 26, 2012.

Abbreviations

˚F	Degrees Fahrenheit (temperature)
<	Less than
=	Equal to
>	Greater than
AP	Approximately
C	Centigrade (temperature)
kg	Kilogram
L	Liter
mg	Milligrams
mL	Milliliter
mm^2	Square millimeters
mmHg	Millimeters of mercury (pressure)
N/A	Not applicable
N/D	Not determined
ppm	Parts per million
sec	Second
ug	Micrograms

Acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
AL	Action Level
ANSI	American National Standards Institute
API	American Petroleum Institute
CAS	Chemical Abstract Service
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
EC50	Ecological concentration 50%
EPA	U.S. Environmental Protection Agency
ERPG	Emergency Response Planning Guideline
GHS	Global Harmonized System

HMIS	Hazardous Materials Information System
IARC	International Agency for Research On Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
Koc	Soil Organic Carbon
LC50	Lethal concentration 50%
LD50	Lethal dose 50%
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health
NOIC	Notice of Intended Change
NTP	National Toxicology Program
OPA	Oil Pollution Act of 1990
OSHA	U.S. Occupational Safety & Health Administration
PEL	Permissible Exposure Limit (OSHA)
RCRA	Resource Conservation and Recovery Act Reauthorization Act of 1986 Title III
REL	Recommended Exposure Limit (NIOSH)
RVP	Reid Vapor Pressure
SARA	Superfund Amendments and
SCBA	Self Contained Breathing Apparatus
SPCC	Spill Prevention, Control, and Countermeasures
STEL	Short Term Exposure Limit (generally 15 minutes)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average (8 hr.)
UN	United Nations
UNECE	United Nations Economic Commission for Europe
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Canadian Workplace Hazardous Materials Information System

Disclaimer of Expressed and Implied Warranties

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

** End of Safety Data Sheet **

SAFETY DATA SHEET

Issuing Date no data available **Revision Date** 29-Oct-2015 **Revision Number** 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Number	**019**
Product Name	**Hexavalent Chromium - 1000 mg/L, 125 mL**
Synonyms	None

Recommended use of the chemical and restrictions on use

Recommended Use	Laboratory use only
Uses advised against	No information available

Details of the supplier of the safety data sheet

Supplier	ERA a Waters Company
Supplier Address	16341 Table Mountain Parkway, Golden, CO 80403 USA
Non-Emergency Telephone Number	+1-303-431-8454
Supplier Email	sdsinfo@waters.com

Emergency telephone number

Company Emergency Phone Number	In case of EMERGENCY call CHEMTREC Day or Night Within USA and Canada: 800-424-9300 International Call Collect: +1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B

GHS Label elements, including precautionary statements

Emergency Overview

Signal word **Danger**

Hazard Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child

Appearance Yellow **Physical state** Liquid->Liquid **Odor** Odorless

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
Inhalation
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up
Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable
Unknown Toxicity
0 % of the mixture consists of ingredient(s) of unknown toxicity
Other information

Harmful to aquatic life with long lasting effects
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
Interactions with Other Chemicals
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Note: only the components contributing to the product's GHS hazard classification are listed in this section.

Synonyms None.

Chemical Name	CAS-No	Percent
Potassium Dichromate	7778-50-9	0.25

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Inhalation	MAY CAUSE ALLERGIC RESPIRATORY REACTION. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Seek immediate medical attention/advice.
Ingestion	May produce an allergic reaction. If an allergic reaction occurs, stop use and seek medical help right away. Do NOT induce vomiting. Rinse mouth immediately and drink plenty of

water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Itching. Rashes. Hives. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Product is or contains a sensitizer. May cause sensitization by skin contact. May cause sensitization by inhalation and skin contact.

Uniform Fire Code Sensitizer: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Dichromate 7778-50-9	TWA: 0.05 mg/m^3 Cr	TWA: 5 µg/m^3 Action Level: 2.5 µg/m^3 Cr (vacated) Ceiling: 0.1 mg/m^3 Ceiling: 0.1 mg/m^3 CrO3 applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect	IDLH: 15 mg/m^3 Cr(VI) TWA: 0.0002 mg/m^3 Cr

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Liquid->Liquid
Appearance Yellow
Color No information available
Odor Odorless
Odor Threshold No information available

Property	Values	Remarks Method
pH	5	None known
Melting / freezing point	no data available	None known
Boiling point / boiling range	no data available	None known
Flash Point	no data available	None known
Evaporation Rate	no data available	None known
Flammability (solid, gas)	no data available	None known

Flammability Limit in Air		
Upper flammability limit	no data available	
Lower flammability limit	no data available	
Vapor pressure	no data available	None known
Vapor density	no data available	None known
Specific Gravity	1	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	no data available	None known
Partition coefficient: n-octanol/water	no data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature	no data available	None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	no data available	None known
Explosive properties	no data available	
Oxidizing properties	no data available	

Other Information

Softening Point	no data available
Particle Size	no data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

no data available.

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.
Conditions to avoid
None known based on information supplied.
Incompatible materials
None known based on information supplied.
Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	.
Inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Dichromate 7778-50-9	= 25 mg/kg (Rat) = 48 mg/kg (Rat)	= 1150 mg/kg (Rabbit) = 14 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Itching. Rashes. Hives. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization in susceptible persons. May cause sensitization by skin contact. May cause sensitization by inhalation.

Mutagenic Effects There is no data for this product. Contains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium Dichromate 7778-50-9	A1	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity Contains a known or suspected reproductive toxin.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic toxicity No known effect based on information supplied. Prolonged exposure may cause chronic effects. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Contains a known or suspected reproductive toxin.

Target Organ Effects Skin. Respiratory system. Eyes. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Reproductive system.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
40,000.00 mg/kg
ATEmix (inhalation-dust/mist)
20.04 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Potassium Dichromate 7778-50-9		96h LC50: > 139 mg/L (Cyprinus carpio) 96h LC50: 113.6 - 155.7 mg/L (Lepomis macrochirus) 96h LC50: = 320 mg/L (Lepomis macrochirus) 96h LC50: 65.6 - 137.6 mg/L (Lepomis macrochirus) 96h LC50: = 12.3 mg/L (Oncorhynchus mykiss) 96h LC50: 21.209 - 30.046 mg/L (Oryzias latipes) 96h LC50: 15.41 - 30.36 mg/L (Pimephales promelas) 96h LC50: 14 - 20.9 mg/L (Pimephales promelas) 96h LC50: 24.81 - 34.55 mg/L (Poecilia reticulata) 96h LC50: 23 - 41.2 mg/L (Poecilia reticulata) 96h LC50: = 26 mg/L (Morone saxatilis)		

Persistence and Degradability
No information available.
Bioaccumulation
No information available

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Potassium Dichromate 7778-50-9	Toxic Corrosive Ignitable

14. TRANSPORT INFORMATION

DOT Not regulated
Proper Shipping Name NON REGULATED
Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name NON REGULATED
Special Provisions None

IMDG Not regulated
Special Provisions None
Marine Pollutant Not applicable

RID Not regulated
Special Provisions None

ADR Not regulated
Special Provisions None

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.
ENCS Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
AICS Contact supplier for inventory compliance status

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Percent	SARA 313 - Threshold Values %
Potassium Dichromate - 7778-50-9	7778-50-9	0.25	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium Dichromate 7778-50-9	10 lb	X		X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium Dichromate 7778-50-9	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

.

International Regulations

Component	Carcinogen Status	Exposure Limits
Potassium Dichromate 7778-50-9 (0.25)	A1	Mexico: TWA 0.05 mg/m³ Mexico: TWA 0.5 mg/m³

A1 - Confirmed Human Carcinogen

Canada

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

NFPA	**Health Hazards** 2	**Flammability** 0	**Instability** 0	**Physical and Chemical Hazards** -
HMIS	**Health Hazards** 2 *	**Flammability** 0	**Physical Hazard** 0	**Personal Protection** X

Chronic Hazard Star Legend * = Chronic Health Hazard

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date 29-Oct-2015

Revision Note No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved

End of Safety Data Sheet

SAFETY DATA SHEET

Version 5.5
Revision Date 05/27/2016
Print Date 07/13/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Indeno[1,2,3-*cd*]pyrene
Product Number	:	48499
Brand	:	Supelco
CAS-No.	:	193-39-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Carcinogenicity (Category 2), H351

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Warning
Hazard statement(s)	
H351	Suspected of causing cancer.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	$C_{22}H_{12}$
Molecular weight	:	276.33 g/mol
CAS-No.	:	193-39-5
EC-No.	:	205-893-2

Hazardous components

Component	Classification	Concentration
Indeno[1,2,3-cd]pyrene		
	Carc. 2; H351	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: solid
b)	Odour	No data available
c)	Odour Threshold	No data available

d)	pH	No data available
e)	Melting point/freezing point	163.6 °C (326.5 °F)
f)	Initial boiling point and boiling range	536.0 °C (996.8 °F)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Indeno[1,2,3-cd]pyrene)
IARC:	2B - Group 2B: Possibly carcinogenic to humans (Indeno[1,2,3-cd]pyrene)
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	Reasonably anticipated to be a human carcinogen (Indeno[1,2,3-cd]pyrene)
NTP:	Reasonably anticipated to be a human carcinogen (Indeno[1,2,3-cd]pyrene)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Indeno[1,2,3-cd]pyrene	193-39-5	1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. Indeno[1,2,3-cd]pyrene	CAS-No. 193-39-5	Revision Date 2007-09-28
WARNING! This product contains a chemical known to the State of California to cause cancer.	CAS-No. 193-39-5	Revision Date 2007-09-28

Indeno[1,2,3-cd]pyrene

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Carc.	Carcinogenicity
H351	Suspected of causing cancer.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 05/27/2016 Print Date: 07/13/2017

Iron Filings, 40 mesh

SECTION 1 : Identification of the substance/mixture and of the supplier

Product name : **Iron Filings, 40 mesh**

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: **S25369**

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:

Not classified for physical or health hazards under GHS.

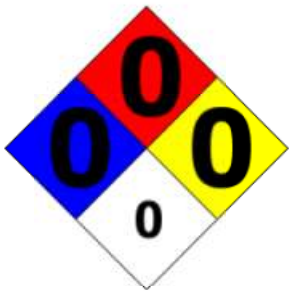
Signal word :Warning

Hazard statements:
Precautionary statements:
If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Do not eat, drink or smoke when using this product

Combustible Dust Hazard: :
May form combustible dust concentrations in air (during processing).

Other Non-GHS Classification:

WHMIS
NFPA/HMIS



NFPA SCALE (0-4)

HMIS RATINGS (0-4)

Iron Filings, 40 mesh

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 7439-89-6	Iron	100 %
		Percentages are by weight

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position.Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen.Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes.Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea,Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.Physician should treat symptomatically.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.Use spark-proof tools and explosion-proof equipment.Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols.Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use spark-proof tools and explosion-proof equipment.Ensure that air-handling systems are operational.Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Should not be released into environment.

Methods and material for containment and cleaning up:

Keep in suitable closed containers for disposal.Wear protective eyeware, gloves, and clothing. Refer to Section 8.Always obey local regulations.Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter). Evacuate personnel to safe areas.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Minimize dust generation and accumulation. Follow good hygiene procedures when handling chemical materials. Refer to Section 8.Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Store away from incompatible materials.Protect from freezing and physical damage.Keep away from food and beverages.Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store in cool, dry conditions in well sealed containers. Store with like hazards

SECTION 8 : Exposure controls/personal protection

Control Parameters: , , OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf*)
, , ACGIH TLV TWA (inhalable particles) 10 mg/m3

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).Use under a fume hood

Respiratory protection: Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.When necessary use NIOSH approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance.Select glove material based on rates of diffusion and degradation.Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves.Wear protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping.Wash hands before breaks and at the end of work.Avoid contact with skin, eyes, and clothing.Before wearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Solid	**Explosion limit lower**: **Explosion limit upper**:	Not determined Not determined
Odor:	Not Determined	**Vapor pressure**:	Not determined
Odor threshold:	Not determined	**Vapor density**:	Not determined
pH-value:	Not Determined	**Relative density**:	Not determined
Melting/Freezing point:	Not determined	**Solubilities**:	
Boiling point/Boiling range:	Not determined	**Partition coefficient (n-octanol/water)**:	Not determined
Flash point (closed cup):	Not determined	**Auto/Self-ignition temperature**:	Not determined
Evaporation rate:	Not determined	**Decomposition temperature**:	Not determined
Flammability (solid,gaseous):	Not determined	**Viscosity**:	a. Kinematic:Not determined b. Dynamic: Not determined
Density: Not determined			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions.
Chemical stability: Stable under normal conditions.
Possible hazardous reactions: None under normal processing
Conditions to avoid: Incompatible Materials.
Incompatible materials: Strong acids.Strong bases.Oxidizing agents.
Hazardous decomposition products:

SECTION 11 : Toxicological information

Acute Toxicity: No additional information.	
Chronic Toxicity: No additional information.	
Corrosion Irritation: No additional information.	
Sensitization:	No additional information.
Single Target Organ (STOT):	No additional information.
Numerical Measures:	No additional information.

Iron Filings, 40 mesh

Carcinogenicity:	No additional information.
Mutagenicity:	No additional information.
Reproductive Toxicity:	No additional information.

SECTION 12 : Ecological information

Ecotoxicity Persistence and degradability:
Bioaccumulative potential:
Mobility in soil:
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material.Dispose of empty containers as unused product.Product or containers must not be disposed with household garbage.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11).Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information

UN-Number

Not Regulated.

UN proper shipping name

Not Regulated.

Transport hazard class(es)
Packing group:Not Regulated
Environmental hazard:
Transport in bulk:
Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation

Effective date : 10.24.2014
Last updated : 03.23.2015

SAFETY DATA SHEET

Isobutylene

Section 1. Identification

GHS product identifier : Isobutylene

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene)

Product use : Synthetic/Analytical chemistry.

Synonym : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene)

SDS # : 001031

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 1
GASES UNDER PRESSURE - Liquefied gas

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Extremely flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May cause frostbite.
May displace oxygen and cause rapid suffocation.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Response : Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal : Not applicable.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : 2-methylpropene

Other means of identification : 1-Propene, 2-methyl-; Isobutene; Isobutylene; 1-Propene, 2-methyl- (isobutene)

CAS number/other identifiers

CAS number : 115-11-7

Product code : 001031

Ingredient name	%	CAS number
Isobutylene	100	115-11-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Isobutylene	**ACGIH TLV (United States, 3/2015).** TWA: 250 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Section 8. Exposure controls/personal protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Liquefied compressed gas.]

Color : Colorless.

Molecular weight : 56.12 g/mole

Molecular formula : C4-H8

Boiling/condensation point : -6.9°C (19.6°F)

Melting/freezing point : -140.7°C (-221.3°F)

Critical temperature : 144.75°C (292.6°F)

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Flash point : Closed cup: -76.1°C (-105°F)

Burning time : Not applicable.

Burning rate : Not applicable.

Evaporation rate : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and oxidizing materials.

Lower and upper explosive (flammable) limits : Lower: 1.8%
Upper: 9.6%

Vapor pressure : 24.3 (psig)

Vapor density : 1.94 (Air = 1)

Specific Volume (ft ^{3}/lb) : 6.6845

Gas Density (lb/ft ^{3}) : 0.1496 (25°C / 77 to °F)

Relative density : Not applicable.

Solubility : Not available.

Solubility in water : 0.263 g/l

Partition coefficient: n-octanol/water : 2.34

Auto-ignition temperature : 465°C (869°F)

Decomposition temperature : Not available.

SADT : Not available.

Section 9. Physical and chemical properties

Viscosity : Not applicable.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Oxidizers

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Isobutylene	LC50 Inhalation Vapor	Rat	550000 mg/m³	4 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Isobutylene	2.34	-	low

Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1055	UN1055	UN1055	UN1055	UN1055
UN proper shipping name	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE	ISOBUTYLENE
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: Forbidden. **Cargo aircraft** Quantity limitation: 150 kg **Special provisions** 19, T50	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). **Explosive Limit and Limited Quantity Index** 0.125 **ERAP Index** 3000 **Passenger Carrying Ship Index** Forbidden **Passenger Carrying Road or Rail Index** Forbidden **Special provisions** 29	-	-	**Passenger and Cargo Aircraft**Quantity limitation: 0 Forbidden **Cargo Aircraft Only** Quantity limitation: 150 kg

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 14. Transport information

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Air Act (CAA) 112 regulated flammable substances: isobutylene

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Sudden release of pressure

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Isobutylene	100	Yes.	Yes.	No.	No.	No.

State regulations

Massachusetts : This material is listed.

New York : This material is not listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

International lists

National inventory

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : This material is listed or exempted.

Malaysia : Not determined.

Section 15. Regulatory information

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class B-1: Flammable gas.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.
Class B-1: Flammable gas.

Hazardous Material Information System (U.S.A.)

Health	1
Flammability	4
Physical hazards	2

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Flam. Gas 1, H220 Press. Gas Liq. Gas, H280	Expert judgment Expert judgment

History

Date of printing : 7/11/2016

Date of issue/Date of revision : 7/11/2016

Date of previous issue : No previous validation

Section 16. Other information

Version : 0.01

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 12-Sep-2014 **Revision Date** 12-Dec-2014 **Revision Number** 1

1. Identification

Product Name **Lead**

Cat No. : **L27-1RL**

Synonyms Lead metal.

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Emergency Telephone Number
Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Carcinogenicity	Category 1B
Reproductive Toxicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Harmful if swallowed
Harmful if inhaled
May cause drowsiness or dizziness
May cause cancer
May damage the unborn child. Suspected of damaging fertility
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
Other hazards
WARNING! This product contains a chemical known in the State of California to cause cancer. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Lead	7439-92-1	> 99

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes.

Inhalation Move to fresh air.

Ingestion Do not induce vomiting.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available

Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
None known
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.
Environmental Precautions See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up No information available.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead	TWA: 0.05 mg/m³	TWA: 50 µg/m³	IDLH: 100 mg/m³ TWA: 0.050 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Lead	TWA: 0.05 mg/m³	TWA: 0.15 mg/m³	TWA: 0.05 mg/m³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment
Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Light blue
Odor	Odorless
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	327.4 °C / 621.3 °F
Boiling Point/Range	1740 °C / 3164 °F
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	1.3 mmHg @ 970 °C
Vapor Density	No information available
Relative Density	11.3
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Pb
Molecular Weight	207.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Toxicologically Synergistic Products	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Lead	7439-92-1	Group 2B	Reasonably Anticipated	A3	X	A3

IARC: (International Agency for Research on Cancer)
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens
Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Kidney Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

(Bad file name)

Ecotoxicity

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Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Lead	Not listed	1.32 mg/L LC50 96 h 1.17 mg/L LC50 96 h 0.44 mg/L LC50 96 h	Not listed	600 µg/L EC50 = 48 h

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Lead	X	X	-	231-100-4	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Lead	7439-92-1	> 99	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Lead	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Lead	X		-

OSHA Occupational Safety and Health Administration
Not applicable

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Lead	30 µg/m³ Action Level 50 µg/m³ TWA	-

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Lead	10 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Lead	7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive	15 µg/day	Developmental Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lead	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials
D1B Toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 12-Sep-2014
Revision Date 12-Dec-2014
Print Date 12-Dec-2014
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Creation Date 17-Jan-2011 **Revision Date** 03-Aug-2015 **Revision Number** 3

1. Identification

Product Name **Magnesium**

Cat No. : **AC191080000; AC191080025; AC191080100; AC191085000**

Synonyms Magnesium metal (ribbons/turnings)

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 1
Self-heating substances and mixtures	Category 2
Substances/mixtures which, in contact with water, emit flammable gases	Category 2

Label Elements

Signal Word
Danger

Hazard Statements
Flammable solid
Self-heating in large quantities; may catch fire
In contact with water releases flammable gas

Precautionary Statements
Prevention
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool. Protect from sunlight
Keep away from any possible contact with water, because of violent reaction and possible flash fire
Handle under inert gas. Protect from moisture
Skin
Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages
Fire
In case of fire: Use CO_2, dry chemical, or foam for extinction
Storage
Maintain air gap between stacks/pallets
Store away from other materials
Store in a dry place. Store in a closed container
Store bulk masses at temperatures not exceeding manufacturer recommendations
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
May form combustible dust concentrations in air

3. Composition / information on ingredients

Component	CAS-No	Weight %
Magnesium	7439-95-4	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Get medical attention.

Most important symptoms/effects No information available.
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. approved class D extinguishers. clay. sodium carbonate. Do not use a solid water stream as it may scatter and spread fire.

Unsuitable Extinguishing Media No information available

Flash Point 500 °C / 932 °F
Method - No information available

Autoignition Temperature 472.8 °C / 883 °F
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Dust can form an explosive mixture in air. Water reactive. Produce flammable gases on contact with water. Flammable.

Hazardous Combustion Products
Magnesium oxides
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
0	4	2	W

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition.

Environmental Precautions See Section 12 for additional ecological information.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Remove all sources of ignition. Ground and bond containers when transferring material. Use spark-proof tools and explosion-proof equipment.

7. Handling and storage

Handling Avoid contact with skin and eyes. Do not breathe dust. Use explosion-proof equipment. Use only non-sparking tools. Wash hands before breaks and immediately after handling the product. Ensure adequate ventilation. Wear personal protective equipment. Avoid dust formation.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Never allow product to get in contact with water during storage. Store under an inert atmosphere.

8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Silver
Odor	Odorless
Odor Threshold	No information available
pH	7
Melting Point/Range	651 °C / 1203.8 °F
Boiling Point/Range	1107 °C / 2024.6 °F
Flash Point	500 °C / 932 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	negligible
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	472.8 °C / 883 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Mg
Molecular Weight	24.3

10. Stability and reactivity

Reactive Hazard Yes

Stability Stable under normal conditions. Air sensitive. Water reactive.

Conditions to Avoid Protect from water. Exposure to air. Incompatible products. Exposure to moist air or water.

Incompatible Materials Acids, Strong oxidizing agents, Halogens, Acid chlorides

Hazardous Decomposition Products Magnesium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium	230 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium	7439-95-4	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	None known
STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability	Insoluble in water
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.

13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN-No	UN1869
Proper Shipping Name	MAGNESIUM
Hazard Class	4.1
Packing Group	III

TDG

UN-No	UN1869
Proper Shipping Name	MAGNESIUM
Hazard Class	4.1
Packing Group	III

IATA

UN-No	UN1869
Proper Shipping Name	MAGNESIUM
Hazard Class	4.1
Packing Group	III

IMDG/IMO

UN-No	UN1869
Proper Shipping Name	MAGNESIUM
Hazard Class	4.1
Packing Group	III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium	X	X	-	231-104-6	-		X	-	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Magnesium	X	X	X	-	X

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class	B6 Reactive flammable material B4 Flammable solid F Dangerously reactive material

16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date	17-Jan-2011
Revision Date	03-Aug-2015
Print Date	03-Aug-2015
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

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End of SDS

SAFETY DATA SHEET

Version 4.6
Revision Date 10/09/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Manganese
Product Number	:	266167
Brand	:	Aldrich
CAS-No.	:	7439-96-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute aquatic toxicity (Category 2), H401

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	none
Signal word	none
Hazard statement(s)	
H401	Toxic to aquatic life.
Precautionary statement(s)	
P273	Avoid release to the environment.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Mn
Molecular weight	:	54.94 g/mol
CAS-No.	:	7439-96-5
EC-No.	:	231-105-1

Hazardous components

Component	Classification	Concentration
Manganese		
	Aquatic Acute 2; H401	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Manganese/manganese oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Handle and store under inert gas.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Manganese	7439-96-5	TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC)		
		C	5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		Ceiling limit is to be determined from breathing-zone air samples.		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	3.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.200000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) varies		
		TWA	0.100000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2015 Adoption varies		

		TWA	0.020000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment 2015 Adoption varies		
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		
		TWA	0.02 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Central Nervous System impairment varies		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: chips Colour: grey, brown, silver
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,244 °C (2,271 °F) - lit.
f)	Initial boiling point and boiling range	1,962 °C (3,564 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available

j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	7.3 g/mL at 25 °C (77 °F)
n)	Water solubility	0.0007 g/l at 20 °C (68 °F) - slightly soluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Avoid moisture.

10.5 Incompatible materials
acids, Halogens, Bases, Phosphorus, Sulphur oxides, Hydrogen peroxide, Oxidizing agents, Nitric acid, Sodium Hydroxide, Carbon dioxide (CO2), Nitryl Flouride, Steam

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - female - > 2,000 mg/kg
(OECD Test Guideline 420)

LC50 Inhalation - Rat - male and female - 4 h - > 5.14 mg/l
(OECD Test Guideline 403)

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation - 72 h
(OECD Test Guideline 405)

Respiratory or skin sensitisation
- Mouse
Result: Does not cause skin sensitisation.
(OECD Test Guideline 429)

Germ cell mutagenicity
No data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	semi-static test NOEC - Oncorhynchus mykiss (rainbow trout) - 3.6 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization NOEC - Daphnia magna (Water flea) - 1.6 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 4.5 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition EC50 - Sludge Treatment - 1,000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

SARA 311/312 Hazards
Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Manganese	7439-96-5	2007-07-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
H401	Toxic to aquatic life.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.6 Revision Date: 10/09/2015 Print Date: 05/01/2016

Safety Data Sheet
Mercury (Metallic)

SDS Revision Date: **05/01/2015**

1. Identification

1.1. Product identifier

Product Identity	Mercury (Metallic)
Alternate Names	Quicksilver; Hydrargyrum; Liquid Silver

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	WM Mercury Waste Inc. 21211 Durand Avenue Union Grove, WI 53182
Emergency	
CHEMTREC (USA)	(800) 424-9300
Customer Service: WM Mercury Waste Inc.	(800) 741-3343

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 2;H330	Fatal if inhaled.
Repr. 1B;H360D	May damage the unborn child.
STOT RE 1;H372	Causes damage to organs through prolonged or repeated exposure. Specific Target Organs: (Central Nervous System)
Aquatic Chronic 1;H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H330 Fatal if inhaled.
H360D May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

[Prevention]:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist / vapors / spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P284 Wear respiratory protection.
[Response]:
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P310 Immediately call a POISON CENTER or doctor / physician.
P314 Get Medical advice / attention if you feel unwell.
P320 Specific treatment is urgent (see information on this label).
P391 Collect spillage.
[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.
[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Mercury **CAS Number: 0007439-97-6**	**100**	**Repr. 1B;H360D** **Acute tox. 2;H330** **STOT RE 1;H372** **Aquatic Acute 1;H400** **Aquatic Chronic 1;H410**	**[1][2]**

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed, wash out mouth with water, obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	**Eye:** Contact with eyes may cause severe irritation, and possible eye burns. Vapors may cause eye irritation. **Skin:** May cause skin irritation. May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, and personality changes. **Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause effects similar to those for inhalation exposure. **Inhalation:** Causes respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. May cause severe respiratory tract irritation. **Chronic:** Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, and personality changes. **Notes to Physician:** Treat symptomatically and supportively. **Antidote:** The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel. The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. See section 2 for further details.
Inhalation	Fatal if inhaled.

5. Fire-fighting measures

5.1. Extinguishing media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Mercury/mercury oxides.

Do not breathe mist / vapors / spray.

5.3. Advice for fire-fighters

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustion generates toxic fumes.

ERG Guide No. 172

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section).

7. Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Acetylene, ammonia, boron phosphodiiodide, chlorine, chlorine dioxide, methyl azide, sodium carbide, halogens, strong oxidizers.

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Poison room locked.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0007439-97-6	Mercury	OSHA	TWA 0.1 mg/m3
		ACGIH	Alkyl compounds TWA: 0.01 mg/m3 STEL 0.03 mg/m3 Skin Aryl compounds TWA: 0.05 mg/m3 C 0.1 mg/m3 Skin Elemental/Inorganic 0.025mg/m3 Skin
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0007439-97-6	Mercury	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

8.2. Exposure controls

Respiratory Follow the OSHA respirator regulations found in 29CFR §1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Eyes Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin Wear appropriate protective clothing to prevent skin exposure. Wear appropriate gloves to prevent skin exposure.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Silver Liquid
Odor	Odorless
Odor threshold	Not Measured
pH	Not Applicable
Melting point / freezing point	-38.87 deg C

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Initial boiling point and boiling range	356.5 deg C @ 760.00mmHg
Flash Point	Not Measured
Evaporation rate (Ether = 1)	Not Available
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** Not Measured **Upper Explosive Limit:** Not Measured
Vapor pressure (Pa)	0.002 mmHg @ 25C
Vapor Density	7 (Air=1)
Specific Gravity	13.5400g/cm3 (Water=1)
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Available
Viscosity (cSt)	1.554 cP 20.00
Molecular Formula	Hg
Molecular Weight	200.59

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

High temperatures, incompatible materials, metals.

10.5. Incompatible materials

Acetylene, ammonia, boron phosphodiiodide, chlorine, chlorine dioxide, methyl azide, sodium carbide, halogens, strong oxidizers.

10.6. Hazardous decomposition products

Mercury/mercury oxides.

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm

Mercury - (7439-97-6)	37.00, Rat - Category: 2	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	2	Fatal if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	2	Fatal if inhaled.
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	1B	May damage the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Mercury - (7439-97-6)	Not Available	0.0052, Daphnia magna	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN2809	UN2809	UN2809
14.2. UN proper shipping name	UN2809, Mercury, 8, III	Mercury	Mercury
14.3. Transport hazard class(es)	**DOT Hazard Class:** 8 (6.1)	**IMDG:** 8 **Sub Class:** 6.1	**Air Class:** 8
14.4. Packing group	III	III	III

14.5. Environmental hazards

IMDG Marine Pollutant: Yes (Mercury)

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D1A

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): Yes

EPCRA 311/312 Chemicals and RQs (lbs):

Mercury (1.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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EPCRA 313 Toxic Chemicals:

Mercury

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
Mercury

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Mercury

Pennsylvania RTK Substances (>1%):

Mercury

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H330 Fatal if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall WM Mercury Waste Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages.

End of Document

Safety Data Sheet

Material Name: Hess 10W30 Motor Oil

SDS No. 8957
US GHS

Synonyms: Valvoline Product Code 52670413

* * * Section 1 - Product and Company Identification * * *

Manufacturer Information

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

Phone: 732-750-6000 Corporate EHS
Emergency # 800-424-9300 CHEMTREC
www.hess.com (Environment, Health, Safety Internet Website)

* * * Section 2 - Hazards Identification * * *

GHS Classification:

Skin Corrosion/Irritation – Category 2
Specific Target Organ Toxicity – Category 3 (narcosis)
Carcinogenicity - Category 1B

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

WARNING

Hazard Statements

Causes skin irritation.
May cause cancer.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention

Wash hands and forearms thoroughly after handling.
Wear protective gloves/protective clothing/eye protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing fume/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

Response

If on skin: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep in a position comfortable for breathing. Call poison center or doctor if you feel unwell.

Storage

Store locked up.
Store in a well-ventilated place.
Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS #	Component	Percent
64742-65-0	Petroleum distillates, solvent dewaxed heavy paraffinic	83-93

Petroleum-based lubricating oil with detergent/dispersant engine oil package with zinc compounds.

* * * Section 4 - First Aid Measures * * *

First Aid: Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is visual difficulty, seek medical attention.

First Aid: Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

First Aid: Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

First Aid: Inhalation

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

First Aid: Notes to Physician

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

* * * Section 5 - Fire Fighting Measures * * *

General Fire Hazards

See Section 9 for Flammability Properties.
Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. No special fire hazards are known to be associated with this product. Dense smoke may be generated while burning.

Hazardous Combustion Products

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorous, various hydrocarbons.

Extinguishing Media

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or gaseous extinguishing agent.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment. Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing. Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

* * * Section 6 - Accidental Release Measures * * *

Recovery and Neutralization

Carefully contain and stop the source of the spill, if safe to do so.

Materials and Methods for Clean-Up

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Caution, flammable vapors may accumulate in closed containers.

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

LARGE SPILL: Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify authorities as required, that a spill has occurred. Persons not wearing proper personal protective equipment should be excluded from area of spill until clean-up has been completed.

Emergency Measures

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Personal Precautions and Protective Equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Prevention of Secondary Hazards

None

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents.

Storage Procedures

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

Incompatibilities

Avoid contact with: acids, halogens, strong oxidizing agents.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Measures

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

Personal Protective Equipment: Respiratory

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Personal Protective Equipment: Hands

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product.

Personal Protective Equipment: Eyes

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

Personal Protective Equipment: Skin and Body

To prevent repeated or prolonged skin contact, wear impervious clothing and boots. Wear normal work clothing covering arms and legs.

Hygiene Measures

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance:	Dry, clear and bright	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	>425 °F (218.3°C) @ 760.00 mmHg	**Melting Point:**	ND
Solubility (H2O):	Negligible	**Specific Gravity:**	0.881 @ 60°F (16°C)
Evaporation Rate:	Slower than ethyl ether	**VOC:**	ND
Viscosity:	<= 3300.0 cps @ -20°C; 10.0 - 11.0 cst @ 100°C	**Octanol/H2O Coeff.:**	ND
Flash Point:	430 °F (221.1 °C)	**Flash Point Method:**	COC
Upper Flammability Limit (UFL):	ND	**Lower Flammability Limit (LFL):**	ND
Burning Rate:	ND	**Auto Ignition:**	ND

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with: acids, halogens, strong oxidizing agents.

Hazardous Decomposition Products

May form: aldehydes, carbon dioxide and carbon monoxide, hydrogen sulfide, oxides of sulfur, nitrogen and phosphorus, toxic fumes, various hydrocarbons.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity

A: General Product Information

Harmful if large amounts are swallowed.

B: Component Analysis - LD50/LC50

Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

Inhalation LC50 Rat >4.7 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms include redness, burning, drying and cracking of the skin, and skin burns. Additional symptoms of skin contact include: acne. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Potential Health Effects: Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Potential Health Effects: Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any skin sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

May cause cancer.

Used motor oil has been shown to cause skin cancer in laboratory animal continually exposed by repeated applications.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ general toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ general toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Acute aspiration of large amounts of oil-laden material may produce a serious aspiration hazard.

* * * Section 12 - Ecological Information * * *

Ecotoxicity

A: General Product Information

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L	
48 Hr EC50 Daphnia magna	>1000 mg/L	

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

* * * Section 13 - Disposal Considerations * * *

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging

Dispose of contents/container in accordance with local/regional/national/international regulations.

* * * Section 14 - Transportation Information * * *

DOT Information

Shipping Name: Not Regulated

* * * Section 15 - Regulatory Information * * *

Regulatory Information

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

SARA Section 311/312 – Hazard Classes

Acute Health	Chronic Health	Fire	Sudden Release of Pressure	Reactive
X	X	--	--	--

SARA SECTION 313 - SUPPLIER NOTIFICATION

ZINC C1-C14 ALKYLDITHIOPHOSPHATE (CAS No. 68649-42-3)

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

NFPA® Hazard Rating

Health	1
Fire	1
Reactivity	0

HMIS® Hazard Rating

Health	1*	Slight
Fire	1	Slight
Physical	0	Minimal
		*Chronic

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Literature References

None

Other Information

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

End of Sheet

SAFETY DATA SHEET

Version 5.5
Revision Date 05/27/2016
Print Date 07/13/2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Methyl *tert*-butyl ether
Product Number	:	48027
Brand	:	Supelco
Index-No.	:	603-181-00-X
CAS-No.	:	1634-04-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 2), H225
Skin irritation (Category 2), H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Danger

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	MTBE *tert*-Butyl methyl ether Methyl *tert*-butyl ether
Formula	:	$C_5H_{12}O$
Molecular weight	:	88.15 g/mol
CAS-No.	:	1634-04-4
EC-No.	:	216-653-1
Index-No.	:	603-181-00-X
Registration number	:	01-2119452786-27-XXXX

Hazardous components

Component	Classification	Concentration
tert-Butyl methyl ether		
	Flam. Liq. 2; Skin Irrit. 2; H225, H315	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
tert-Butyl methyl ether	1634-04-4	TWA	50.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Kidney damage Confirmed animal carcinogen with unknown relevance to humans		
		PEL	40 ppm 144 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 230 min
Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: -108.6 °C (-163.5 °F)
f)	Initial boiling point and boiling range	55 - 56 °C (131 - 133 °F) - lit.
g)	Flash point	-33.0 °C (-27.4 °F) - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 15.1 %(V) Lower explosion limit: 1.6 %(V)
k)	Vapour pressure	1,018.7 hPa (764.1 mmHg) at 55.0 °C (131.0 °F) 279.2 hPa (209.4 mmHg) at 20.0 °C (68.0 °F)
l)	Vapour density	No data available
m)	Relative density	0.74 g/cm3 at 25 °C (77 °F)

n)	Water solubility	42 g/l at 20 °C (68 °F) - OECD Test Guideline 105
o)	Partition coefficient: n-octanol/water	log Pow: 1.06
p)	Auto-ignition temperature	374.0 °C (705.2 °F)
q)	Decomposition temperature	No data available
r)	Viscosity	0.464 mm2/s at 20 °C (68 °F) - 0.409 mm2/s at 40 °C (104 °F) -
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Oxidizing agents, Strong acids

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 4,000 mg/kg

LC50 Inhalation - Rat - 4 h - 23576 ppm

Dermal: No data available

No data available

Skin corrosion/irritation
Skin - Rabbit
Result: Skin irritation

Serious eye damage/eye irritation
Eyes - Rabbit
Result: No eye irritation

Respiratory or skin sensitisation
Will not occur

Germ cell mutagenicity
No data available

Carcinogenicity

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: KN5250000

Nausea, Vomiting, Dizziness, Central nervous system depression, Aspiration or inhalation may cause chemical pneumonitis., MTBE (methyl-tert-butyl ether) is reported to metabolize to tert-butyl alcohol and formaldehyde by microsomal demethylation, MTBE (methyl-tert-butyl ether) should be considered a "potential human carcinogen" due to an increase in leydig interstitial cell tumors of testes in male rats and an increase in lymphomas, leukemias, and uterine sarcomas in female rats., In another unpublished study MTBE was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Central nervous system -

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 672.00 mg/l - 96 h
	LC50 - other fish - > 1,000.00 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 472 mg/l - 48 h
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 491 mg/l - 96 h

12.2 Persistence and degradability

Biodegradability	Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2398 Class: 3 Packing group: II
Proper shipping name: Methyl tert-butyl ether
Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 2398 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: METHYL tert-BUTYL ETHER

IATA
UN number: 2398 Class: 3 Packing group: II
Proper shipping name: Methyl tert-butyl ether

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
tert-Butyl methyl ether	1634-04-4	2007-07-01

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
tert-Butyl methyl ether	1634-04-4	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
tert-Butyl methyl ether	1634-04-4	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
tert-Butyl methyl ether	1634-04-4	2007-07-01

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
Skin Irrit.	Skin irritation

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	
Flammability:	3
Physical Hazard	0

NFPA Rating
Health hazard: 2

Fire Hazard:	3
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.5 Revision Date: 05/27/2016 Print Date: 07/13/2017

Fisher Scientific

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 27-Sep-2010 **Revision Date** 12-Oct-2015 **Revision Number** 3

1. Identification

Product Name **Naphthalene**

Cat No. : **N7-500**

Synonyms Tar camphor; Naphthalin; Coal tar camphor

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Emergency Telephone Number
Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
Acute oral toxicity	Category 4
Carcinogenicity	Category 1B
Target Organs - Liver, Kidney.	

Label Elements

Signal Word
Danger

Hazard Statements
Flammable solid
Harmful if swallowed
May cause cancer

Precautionary Statements
Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Fire
In case of fire: Use CO_2, dry chemical, or foam for extinction
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Naphthalene	91-20-3	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects . Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media No information available

Flash Point 78 °C / 172.4 °F
Method - No information available

Autoignition Temperature Not applicable 526 °C / 978.8 °F
Explosion Limits
Upper 5.9 vol %
Lower 0.9 vol %
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Combustible material. Containers may explode when heated. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO_2)
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	2	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

7. Handling and storage

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Naphthalene	TWA: 10 ppm Skin	(Vacated) TWA: 10 ppm (Vacated) TWA: 50 mg/m³ (Vacated) STEL: 15 ppm (Vacated) STEL: 75 mg/m³ TWA: 10 ppm TWA: 50 mg/m³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Naphthalene	TWA: 10 ppm TWA: 52 mg/m³ STEL: 15 ppm STEL: 79 mg/m³	TWA: 10 ppm TWA: 50 mg/m³ STEL: 15 ppm STEL: 75 mg/m³	TWA: 10 ppm STEL: 15 ppm Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Characteristic
Odor Threshold	No information available
pH	No information available
Melting Point/Range	79 - 82 °C / 174.2 - 179.6 °F
Boiling Point/Range	218 °C / 424.4 °F
Flash Point	78 °C / 172.4 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	5.9 vol %
Lower	0.9 vol %
Vapor Pressure	0.08 mbar @ 20 °C
Vapor Density	Not applicable
Specific Gravity	0.990
Solubility	slightly soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable 526 °C / 978.8 °F
Decomposition Temperature	540 °C
Viscosity	Not applicable
Molecular Formula	C10H8
Molecular Weight	128.17

10. Stability and reactivity

Reactive Hazard Yes

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO_2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphthalene	LD50 = 490 mg/kg (Rat) LD50 = 1110 mg/kg (Rat)	LD50 > 20 g/kg (Rabbit) LD50 = 1120 mg/kg (Rabbit)	LC50 > 340 mg/m^3 (Rat) 1 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Naphthalene	91-20-3	Group 2B	Reasonably Anticipated	A3	X	Not listed

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects Not mutagenic in AMES Test

Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.

Developmental Effects Developmental effects have occurred in experimental animals.

Teratogenicity Teratogenic effects have occurred in experimental animals.

STOT - single exposure None known
STOT - repeated exposure Liver Kidney

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information No information available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.

12. Ecological information

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Naphthalene	EC50: = 0.4 mg/L, 72h (Skeletonema costatum)	LC50 96 h 1-6.5 mg/L (Pimephales promelas)	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	EC50: 1.09 - 3.4 mg/L, 48h Static (Daphnia magna) EC50: = 1.96 mg/L, 48h Flow through (Daphnia magna) LC50: = 2.16 mg/L, 48h (Daphnia magna)

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation No information available.

Mobility . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Naphthalene	3.3

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Naphthalene - 91-20-3	U165	-

14. Transport information

DOT
- **UN-No** UN1334
- **Proper Shipping Name** NAPHTHALENE, CRUDE
- **Hazard Class** 4.1
- **Packing Group** III

TDG
- **UN-No** UN1334
- **Proper Shipping Name** NAPHTHALENE, CRUDE
- **Hazard Class** 4.1
- **Packing Group** III

IATA
- **UN-No** UN1334
- **Proper Shipping Name** NAPHTHALENE, CRUDE
- **Hazard Class** 4.1
- **Packing Group** III

IMDG/IMO
- **UN-No** UN1334
- **Proper Shipping Name** NAPHTHALENE, CRUDE
- **Hazard Class** 4.1
- **Packing Group** III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Naphthalene	X	X	-	202-049-5	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Naphthalene	91-20-3	>95	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	Yes

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Naphthalene	X	100 lb	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Naphthalene	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Naphthalene	100 lb 1 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Naphthalene	91-20-3	Carcinogen	5.8 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Naphthalene	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Moderate risk, Grade 2

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
B3 Combustible liquid
D1B Toxic materials
D2A Very toxic materials

16. Other information

Prepared By
Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 27-Sep-2010
Revision Date 12-Oct-2015
Print Date 12-Oct-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS

SAFETY DATA SHEET

Version 4.7
Revision Date 12/28/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Nickel
Product Number	:	268259
Brand	:	Aldrich
Index-No.	:	028-002-00-7
CAS-No.	:	7440-02-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin sensitisation (Category 1), H317
Carcinogenicity (Category 2), H351
Specific target organ toxicity - repeated exposure, Inhalation (Category 1), H372
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and

	understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula	:	Ni
Molecular weight	:	58.69 g/mol
CAS-No.	:	7440-02-0
EC-No.	:	231-111-4
Index-No.	:	028-002-00-7

Hazardous components

Component	Classification	Concentration
Nickel		
	Skin Sens. 1; Carc. 2; STOT RE 1; Aquatic Acute 3; Aquatic Chronic 3; H317, H351, H372, H412	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture
Nickel/nickel oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Nickel	7440-02-0	TWA	1.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Dermatitis Pneumoconiosis Not suspected as a human carcinogen		
		TWA	1.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.015000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

		TWA	1.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.015000 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		
		TWA	1.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Dermatitis Pneumoconiosis Not suspected as a human carcinogen		
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.015 mg/m3	USA. NIOSH Recommended Exposure Limits
		Potential Occupational Carcinogen See Appendix A		

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Foil Colour: white, silver, metallic
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	Melting point/range: 1,453 °C (2,647 °F) - lit.
f)	Initial boiling point and boiling range	2,732 °C (4,950 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	1 hPa (1 mmHg) at 1,810 °C (3,290 °F)
l)	Vapour density	No data available
m)	Relative density	8.9 g/mL at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
acids, Oxidizing agents, Sulphur compounds, Hydrogen gas, Oxygen, Methanol, organic solvents, Aluminium, Fluorine, Ammonia

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
May cause sensitisation by skin contact.

Germ cell mutagenicity
No data available

Carcinogenicity

Limited evidence of carcinogenicity in animal studies

IARC:	2B - Group 2B: Possibly carcinogenic to humans (Nickel)
	1 - Group 1: Carcinogenic to humans (Nickel)
	2B - Group 2B: Possibly carcinogenic to humans (Nickel)
IARC:	2B - Group 2B: Possibly carcinogenic to humans (Nickel)
	1 - Group 1: Carcinogenic to humans (Nickel)
	2B - Group 2B: Possibly carcinogenic to humans (Nickel)
NTP:	Reasonably anticipated to be a human carcinogen (Nickel)
	Reasonably anticipated to be a human carcinogen (Nickel)
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
Inhalation - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
No data available

Additional Information
RTECS: QR5950000

Stomach - Irregularities - Based on Human Evidence
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 1.3 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1 mg/l - 48 h

12.2 Persistence and degradability
Not applicable

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Nickel	7440-02-0	2007-07-01

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Nickel	7440-02-0	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Nickel	7440-02-0	2007-07-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Nickel	7440-02-0	2007-07-01

California Prop. 65 Components

	CAS-No.	Revision Date
WARNING! This product contains a chemical known to the State of California to cause cancer. Nickel	7440-02-0	2007-09-28

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.7 Revision Date: 12/28/2015 Print Date: 05/01/2016

SAFETY DATA SHEET

Creation Date 10-Dec-2009 **Revision Date** 26-May-2017 **Revision Number** 4

1. Identification

Product Name **Tetrachloroethylene**

Cat No. : **AC445690000; ACR445690010; AC445690025; AC445691000**

Synonyms Perchloroethylene

Recommended Use Laboratory chemicals.
Uses advised against Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Tetrachloroethylene	127-18-4	>95

4. First-aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms/effects None reasonably foreseeable. May cause allergic skin reaction. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated.

Hazardous Combustion Products
Chlorine Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation.
Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Tetrachloroethylene	TWA: 25 ppm STEL: 100 ppm	(Vacated) TWA: 25 ppm (Vacated) TWA: 170 mg/m^3 Ceiling: 200 ppm TWA: 100 ppm	IDLH: 150 ppm	TWA: 100 ppm TWA: 670 mg/m^3 TWA: 200 ppm TWA: 1250 mg/m^3 STEL: 200 ppm STEL: 1340 mg/m^3

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Characteristic, sweet
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-22 °C / -7.6 °F
Boiling Point/Range	120 - 122 °C / 248 - 251.6 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	6.0 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	18 mbar @ 20 °C
Vapor Density	No information available
Density	1.619
Specific Gravity	1.625
Solubility	0.15 g/L water (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 150°C
Viscosity	0.89 mPa s at 20 °C
Molecular Formula	C2 Cl4
Molecular Weight	165.83

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible Materials Strong acids, Strong oxidizing agents, Strong bases, Metals, Zinc, Amines, Aluminium

Hazardous Decomposition Products Chlorine, Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrachloroethylene	LD50 = 2629 mg/kg (Rat)	LD50 > 10000 mg/kg (Rat)	LC50 = 27.8 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tetrachloroethylene	127-18-4	Group 2A	Reasonably Anticipated	A3	X	A3

IARC: (International Agency for Research on Cancer)
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens
Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen
A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Central nervous system (CNS)
STOT - repeated exposure Kidney Liver Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest

pain, muscle pain or flushing

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Tetrachloroethylene	Group II Chemical	Not applicable	Not applicable

Other Adverse Effects Tumorigenic effects have been reported in experimental animals.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Tetrachloroethylene	EC50: > 500 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: 4.73 - 5.27 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 11.0 - 15.0 mg/L, 96h static (Lepomis macrochirus) LC50: 8.6 - 13.5 mg/L, 96h static (Pimephales promelas) LC50: 12.4 - 14.4 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	EC50: 6.1 - 9.0 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability Insoluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

Component	log Pow
Tetrachloroethylene	2.88

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Tetrachloroethylene - 127-18-4	U210	-

14. Transport information

DOT

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Packing Group III

TDG

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Packing Group III

IATA

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1

Packing Group III

IMDG/IMO

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Subsidiary Hazard Class P
Packing Group III

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tetrachloroethylene	X	X	-	204-825-9	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Tetrachloroethylene	127-18-4	>95	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Tetrachloroethylene	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Tetrachloroethylene	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tetrachloroethylene	100 lb 1 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Tetrachloroethylene	127-18-4	Carcinogen	14 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tetrachloroethylene	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant Y
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 10-Dec-2009
Revision Date 26-May-2017
Print Date 26-May-2017
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

Section 1. Identification

CHS Inc.
P.O. Box 64089
Mail station 525
St. Paul, MN 55164-0089

Transportation Emergency (CHEMTREC)	:	**1-800-424-9300**
Technical Information	:	**1-651-355-8443**
SDS Information	:	**1-651-355-8445**

Product name	:	Regular, Midgrade & Premium Unleaded Gasoline	**SDS no.**	:	0147- M6A0
Common name	:	Unleaded Gasoline, Premium Unleaded Gasoline	**Revision date**	:	11/15/2013
Chemical name	:	Light Petroleum Distillate	**Chemical formula**	:	Mixture
Chemical family	:	Mixed Petroleum Hydrocarbon			

Relevant identified uses of the substance or mixture and uses advised against

Not available.

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :
FLAMMABLE LIQUIDS - Category 1
SKIN CORROSION/IRRITATION - Category 2
GERM CELL MUTAGENICITY - Category 1B
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION (Fertility) - Category 2
TOXIC TO REPRODUCTION (Unborn child) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
ASPIRATION HAZARD - Category 1
AQUATIC HAZARD (ACUTE) - Category 3
AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :
Extremely flammable liquid and vapor.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.
May cause drowsiness and dizziness.
Causes damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Hazardous Material Information System (U.S.A.)	**Health :**	2 *	**Flammability :**	4	**Physical hazards :**	0	
National Fire Protection Association (U.S.A.)	**Health :**	2	**Flammability :**	4	**Instability :**	0	

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Light Petroleum Distillate

Other means of identification : Unleaded Gasoline, Premium Unleaded Gasoline

Ingredient name	%	CAS number
Toluene	10 - 30	108-88-3
Xylene	10 - 30	1330-20-7
Tert-butyl methyl ether	10 - 30	1634-04-4
Benzene	1 - 5	71-43-2
1,2,4-Trimethylbenzene	1 - 5	95-63-6
Ethylbenzene	1 - 5	100-41-4
n-Hexane	1 - 5	110-54-3
Butyl ethyl ether	0.1 - 1	628-81-9
Naphthalene	0.1 - 1	91-20-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : If material comes in contact with the eyes, immediately wash the eyes with large amounts of water for 15 minutes, occasionally lifting the lower and upper lids. Get medical attention.

Inhalation : If person breathes in large amounts of material, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the person warm and at rest. Get medical attention as soon as possible.

Skin contact : If the material comes in contact with the skin, wash the contaminated skin with soap and water promptly. If the material penetrates through clothing, remove the clothing and wash the skin with soap and water promptly. If irritation persists after washing, get medical attention immediately.

Ingestion : If material has been swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin contact : Adverse symptoms may include the following: irritation, redness.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the chemical : Highly volatile material. Flowing gasoline can be ignited by self-generated static electricity; containers should be bonded and grounded. Vapors may travel along the ground to a source of ignition (pilot light, heater, electric motor) some distance away. Containers, drums (even empty) can explode when heat (welding, cutting, etc.) is applied.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Water may be ineffective on flames, but should be used to keep fire-exposed containers cool. Large fires, such as tank fires, should be fought with caution. If possible, pump the contents from the tank and keep adjoining structures cool and protect personnel. Avoid spreading burning liquid with water used for cooling purposes. Do not flush down public sewers. The use of a self-contained breathing apparatus and protective clothing is recommended for fire fighters. Avoid inhalation of vapors.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Spill : Contain with dikes or absorbent to prevent migration to sewers/streams. Take up small spill with dry chemical absorbent; large spills may require pump or vacuum prior to absorbent. May require excavation of severely contaminated soil.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Conditions for safe storage, including any incompatibilities : Do not store above the following temperature: 113°C (235.4°F). Odorous and toxic fumes may form from the decomposition of this product if stored at excessive temperatures for extended periods of time. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Toluene	**NIOSH REL (United States, 6/2009).** STEL: 560 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m³ 10 hours. TWA: 100 ppm 10 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. **ACGIH TLV (United States, 3/2012).** TWA: 20 ppm 8 hours.
Xylene	**ACGIH TLV (United States, 3/2012).** STEL: 651 mg/m³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 434 mg/m³ 8 hours. TWA: 100 ppm 8 hours. **OSHA PEL (United States, 6/2010).** TWA: 100 ppm 8 hours.

	TWA: 435 mg/m³ 8 hours.
Tert-butyl methyl ether	**ACGIH TLV (United States, 1/2005).** TWA: 50 ppm 8 hours. Form: All forms. **ACGIH TLV (United States, 2/2010).** TWA: 50 ppm 8 hours.
Benzene	**ACGIH TLV (United States, 3/2012). Absorbed through skin.** STEL: 8 mg/m³ 15 minutes. STEL: 2.5 ppm 15 minutes. TWA: 1.6 mg/m³ 8 hours. TWA: 0.5 ppm 8 hours. **NIOSH REL (United States, 6/2009).** STEL: 1 ppm 15 minutes. TWA: 0.1 ppm 10 hours. **OSHA PEL (United States, 6/2010).** STEL: 5 ppm 15 minutes. TWA: 1 ppm 8 hours. **OSHA PEL Z2 (United States, 11/2006).** AMP: 50 ppm 10 minutes. CEIL: 25 ppm TWA: 10 ppm 8 hours.
1,2,4-Trimethylbenzene	**ACGIH TLV (United States, 3/2012).** TWA: 123 mg/m³ 8 hours. TWA: 25 ppm 8 hours. **NIOSH REL (United States, 1/2013).** TWA: 125 mg/m³ 10 hours. TWA: 25 ppm 10 hours. **OSHA PEL 1989 (United States, 3/1989).** TWA: 25 ppm 8 hours. TWA: 125 mg/m³ 8 hours.
Ethylbenzene	**ACGIH TLV (United States, 3/2012).** TWA: 20 ppm 8 hours. **NIOSH REL (United States, 6/2009).** STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 10 hours. TWA: 100 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.
n-Hexane	**ACGIH TLV (United States, 3/2012). Absorbed through skin.** TWA: 50 ppm 8 hours. **NIOSH REL (United States, 6/2009).** TWA: 180 mg/m³ 10 hours. TWA: 50 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 1800 mg/m³ 8 hours. TWA: 500 ppm 8 hours.
Naphthalene	**ACGIH TLV (United States, 3/2012). Absorbed through skin.** STEL: 79 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 52 mg/m³ 8 hours. TWA: 10 ppm 8 hours. **NIOSH REL (United States, 1/2013).** STEL: 75 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes. TWA: 50 mg/m³ 10 hours. TWA: 10 ppm 10 hours. **OSHA PEL (United States, 6/2010).** TWA: 50 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Recommended: Splash goggles and a face shield, where splash hazard exists.

Skin protection

Hand protection : 4 - 8 hours (breakthrough time): Nitrile gloves.

Body protection : Recommended: Long sleeved coveralls.

Other skin protection : Recommended: Impervious boots.

Respiratory protection : If ventilation is inadequate, use a NIOSH-certified respirator with an organic vapor cartridge and P95 particulate filter.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Reddish golden brown.

Odor : Gasoline

Odor threshold : 10 ppm

pH : Not available.

Melting point : Not available.

Boiling point : 26.66°C (80°F)

Flash point : Closed cup: -40°C (-40°F) [Pensky-Martens.]

Flammability : Not available.

Lower and upper explosive (flammable) limits : Lower: 1.4% Upper: 7.6%

Relative density : 0.72

Evaporation rate : Slower.

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Negligible.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : 257.22 to 454.44°C (495 to 850°F)

Decomposition temperature : Not available.

SADT : Not available.

Viscosity : Not available.

Vapor pressure : 53.3 kPa (400 mm Hg) (68°F)

Vapor density : 4 [Air = 1]

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Tert-butyl methyl ether	LC50 Inhalation Gas.	Rat	23576 ppm	4 hours
	LC50 Inhalation Vapor	Rat	41000 mg/m³	4 hours
	LD50 Oral	Rat	>4 g/kg	-
Benzene	LD50 Oral	Rat	930 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
	LD50 Oral	Rat	5 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Butyl ethyl ether	LD50 Oral	Rat	1870 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Mild irritant	Rabbit	-	870 µg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 µL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	-
Xylene	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Moderate irritant	Rabbit	-	100%	-
Benzene	Eyes - Moderate irritant	Rabbit	-	88 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 µL	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 mg	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	10 mg	-
Naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05 mL	-

Sensitization

Skin : There is no data available.

Respiratory : There is no data available.

Mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Xylene	-	3	-
Tert-butyl methyl ether	-	3	-
Benzene	+	1	Known to be a human carcinogen.
Ethylbenzene	-	2B	-
Naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Narcotic effects
1,2,4-Trimethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
n-Hexane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Benzene	Category 1	Not determined	Not determined
n-Hexane	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Benzene	ASPIRATION HAZARD - Category 1
n-Hexane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 433 ppm Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Xylene	Acute IC50 10 mg/L	Algae	72 hours
	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Tert-butyl methyl ether	Acute LC50 672000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Benzene	Acute EC50 29000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1360000 µg/l Fresh water	Algae - Scenedesmus abundans	96 hours
	Acute EC50 9230 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 21000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
1,2,4-Trimethylbenzene	Acute LC50 4910 µg/l Marine water	Crustaceans - Elasmopus pectenicrus - Adult	48 hours
	Acute LC50 22.4 mg/L Fresh water	Fish - Tilapia zillii	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2970 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
n-Hexane	Acute LC50 113000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours
Naphthalene	Acute EC50 1600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Toluene	2.73	90	low
Xylene	3.12	8.1 to 25.9	low
Tert-butyl methyl ether	1.04	1.5	low
Benzene	2.13	11	low
1,2,4-Trimethylbenzene	3.63	243	low
Ethylbenzene	3.6	-	low
n-Hexane	4	501.187	high
Butyl ethyl ether	2.03	-	low
Naphthalene	3.4	36.5 to 168	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Section 14. Transport information

DOT IDENTIFICATION NUMBER UN1203 **DOT proper shipping name** GASOLINE (Toluene, Xylene) RQ (Benzene, Xylene)

DOT Hazard Class(es) 3 **PG** I **DOT EMER. RESPONSE GUIDE NO.** 128

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR**: Naphthalene
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Toluene; Benzene; Ethylbenzene; Naphthalene
Clean Water Act (CWA) 311: Toluene; Xylene; Benzene; Ethylbenzene; Naphthalene

Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Toluene	10 - 30	Yes.	No.	No.	Yes.	Yes.
Xylene	10 - 30	Yes.	No.	No.	Yes.	No.
Tert-butyl methyl ether	10 - 30	Yes.	No.	No.	Yes.	No.
Benzene	1 - 5	Yes.	No.	No.	Yes.	Yes.
1,2,4-Trimethylbenzene	1 - 5	Yes.	No.	No.	Yes.	No.
Ethylbenzene	1 - 5	Yes.	No.	No.	Yes.	Yes.
n-Hexane	1 - 5	Yes.	No.	No.	Yes.	Yes.
Butyl ethyl ether	0.1 - 1	Yes.	No.	No.	Yes.	No.
Naphthalene	0.1 - 1	No.	No.	No.	Yes.	Yes.

SARA 313 : This product (does/not) contain toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

Product name	CAS number	%
Toluene	108-88-3	Up to 18.1
Xylene	1330-20-7	Up to 15.3
Benzene	71-43-2	Up to 5.3
1,2,4-Trimethylbenzene	95-63-6	Up to 4.8
Ethylbenzene	100-41-4	Up to 2.6
n-Hexane	110-54-3	Up to 4
Naphthalene	91-20-3	Up to 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: Toluene; Xylene; Tert-butyl methyl ether; Benzene; 1,2, 4-Trimethylbenzene; Ethylbenzene; n-Hexane; Butyl ethyl ether

New York : The following components are listed: Toluene; Xylene; Tert-butyl methyl ether; Benzene; Ethylbenzene; n-Hexane; Naphthalene

New Jersey : The following components are listed: Toluene; Xylene; Tert-butyl methyl ether; Benzene; 1,2, 4-Trimethylbenzene; Ethylbenzene; n-Hexane; Butyl ethyl ether; Naphthalene

Pennsylvania : The following components are listed: Toluene; Xylene; Tert-butyl methyl ether; Benzene; 1,2, 4-Trimethylbenzene; Ethylbenzene; n-Hexane; Butyl ethyl ether; Naphthalene

California Prop. 65 : **WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
Naphthalene	Yes.	No.	Yes.	No.

Section 16. Other information

Revision date : 11/15/2013

Revised Section(s) : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

Supersedes : 01/23/2013

Prepared by : KMK Regulatory Services Inc.

Notice to reader

THE INFORMATION CONTAINED IN THIS SDS RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED. IT DOES NOT COVER USE OF THAT MATERIAL IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PARTICULAR PROCESS. IN COMPLIANCE WITH 29 C.F.R. 1910.1200(g), CHS HAS PREPARED THIS SDS IN SEGMENTS, WITH THE INTENT THAT THOSE SEGMENTS BE READ TOGETHER AS A WHOLE WITHOUT TEXTUAL OMISSIONS OR ALTERATIONS. CHS BELIEVES THE INFORMATION CONTAINED HEREIN TO BE ACCURATE, BUT MAKES NO REPRESENTATION, GUARANTEE, OR WARRANTY, EXPRESS OR IMPLIED, ABOUT THE ACCURACY, RELIABILITY, OR COMPLETENESS OF THE INFORMATION OR ABOUT THE FITNESS OF CONTENTS HEREIN FOR EITHER GENERAL OR PARTICULAR PURPOSES. PERSONS REVIEWING THIS SDS SHOULD MAKE THEIR OWN DETERMINATION AS TO THE MATERIAL'S SUITABILITY AND COMPLETENESS FOR USE IN THEIR PARTICULAR APPLICATIONS.

CENEX

OUR ENERGY COMES THROUGH.®

A BRAND OF CHS

RegenOx® – Part A (Oxidizer Complex)

Material Safety Data Sheet (MSDS)

Last Revised: June 24, 2010

Section 1 – Supplier Information and Material Identification

Supplier:

REGENESIS
1011 Calle Sombra
San Clemente, CA 92673
Telephone: 949.366.8000
Fax: 949.366.8090
E-mail: info@regenesis.com

Chemical Description:	A mixture of sodium percarbonate [$2Na_2CO_3 \cdot 3H_2O_2$], sodium carbonate [Na_2CO_3], sodium silicate and silica gel.
Chemical Family:	Inorganic Chemicals
Trade Name:	RegenOx® – Part A (Oxidizer Complex)
Product Use:	Used to remediate contaminated soil and groundwater (environmental applications)

Section 2 – Chemical Information/Other Designations

CAS No.	Chemical	Percentage
15630-89-4	Sodium Percarbonate	60 -100 %
5968-11-6	Sodium Carbonate Monohydrate	10 – 30 %
7699-11-6	Silicic Acid	< 1 %
63231-67-4	Silica Gel	< 1 %

Section 3 – Physical Data

Form:	Powder
Color:	White
Odor:	Odorless
Melting Point:	NA
Boiling Point:	NA

Section 3 – Physical Data (cont)

Flammability/Flash Point:	NA
Vapor Pressure:	NA
Bulk Density:	0.9 – 1.2 g/cm^3
Solubility:	Min 14.5g/100g water @ 20 ºC
Viscosity:	NA
pH (3% solution):	≈ 10.5
Decomposition Temperature:	Self-accelerating decomposition with oxygen release starts at 50 ºC.

Section 4 – Reactivity Data

Stability:	Stable under normal conditions
Conditions to Avoid/Incompatibility:	Acids, bases, salts of heavy metals, reducing agents, and flammable substances
Hazardous Decomposition Products:	Oxygen. Contamination with many substances will cause decomposition. The rate of decomposition increases with increasing temperature and may be very vigorous with rapid generation of oxygen and steam.

Section 5 – Regulations

TSCA Inventory Listed:	Yes
CERCLA Hazardous Substance (40 CFR Part 302)	
Listed Substance:	*No*
Unlisted Substance:	*Yes*
SARA, Title III, Sections 313 (40 CFR Part 372) – Toxic Chemical Release Reporting: Community Right-To-Know	
Extremely Hazardous Substance:	No
WHMIS Classification:	C, D2B
Canadian Domestic Substance List:	Appears

Section 6 – Protective Measures, Storage and Handling

Technical Protective Measures

Storage:

Oxidizer. Store in a cool, well ventilated area away from all sources of ignition and out of the direct sunlight. Store in a dry location away from heat and in temperatures less than 40 ˚C.

Keep away from incompatible materials and keep lids tightly closed. Do not store in improperly labeled containers.

Protect from moisture. Do not store near combustible materials. Keep containers well sealed.

Store separately from reducing materials. Avoid contamination which may lead to decomposition.

Handling:

Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

Do not swallow. Avoid breathing vapors, mists or dust. Do not eat, drink or smoke in the work area.

Label containers and keep them tightly closed when not in use.

Wash hands thoroughly after handling.

Personal Protective Equipment (PPE)

Engineering Controls:

General room ventilation is required if used indoors. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mists. Maintain adequate ventilation at all times. Do not use in confined areas. Keep levels below recommended exposure limits. To determine actual exposure limits, monitoring should be performed on a routine basis.

Respiratory Protection:

For many conditions, no respiratory protection is necessary; however, in dusty or unknown conditions or when exposures exceed limit values a NIOSH approved respirator should be used.

Hand Protection:

Wear chemical resistant gloves (neoprene, rubber, or PVC).

Section 6 – Protective Measures, Storage and Handling (cont)

Eye Protection:	Wear chemical safety goggles. A full face shield may be worn in lieu of safety goggles.
Skin Protection:	Try to avoid skin contact with this product. Chemical resistant gloves (neoprene, PVC or rubber) and protective clothing should be worn during use.
Other:	Eye wash station.
Protection Against Fire & Explosion:	Product is non-explosive. In case of fire, evacuate all non-essential personnel, wear protective clothing and a self-contained breathing apparatus, stay upwind of fire, and use water to spray cool fire-exposed containers.

Section 7 – Hazards Identification

Potential Health Effects

Inhalation:	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, and irritations to mucous membranes, nose and throat.
Eye Contact:	Causes irritation, redness and pain.
Skin Contact:	Causes slight irritation.
Ingestion:	May be harmful if swallowed (vomiting and diarrhea).

Section 8 – Measures in Case of Accidents and Fire

After Spillage/Leakage:	Eliminate all ignition sources. Evacuate unprotected personnel and never exceed any occupational exposure limit. Shovel or sweep spilt material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to the inventory.
Extinguishing Media:	Water

First Aid

Eye Contact:	Flush eyes with running water for at least 15 minutes with eyelids held open. Seek a specialist.
Inhalation:	Remove affected person to fresh air. Seek medical attention if the effects persist.
Ingestion:	If the individual is conscious and not convulsing, give two-four cups of water to dilute the chemical and seek medical attention immediately. **Do Not** induce vomiting.

Section 8 – Measures in Case of Accidents and Fire (cont)

Skin Contact:	Wash affected areas with soap and a mild detergent and large amounts of water.

Section 9 – Accidental Release Measures

Precautions:	
Cleanup Methods:	Shovel or sweep spilt material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to the inventory.

Section 10 – Information on Toxicology

Toxicity Data	
LD50 Oral (rat):	2,400 mg/kg
LD50 Dermal (rabbit):	Min 2,000 mg/kg
LD50 Inhalation (rat):	Min 4,580 mg/kg

Section 11 – Information on Ecology

Ecology Data	
Ecotoxicological Information:	NA

Section 12 – Disposal Considerations

Waste Disposal Method	
Waste Treatment:	Dispose of in an approved waste facility operated by an authorized contactor in compliance with local regulations.
Package (Pail) Treatment:	The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

Section 13 – Shipping/Transport Information

D.O.T. Shipping Name:	Oxidizing Solid, N.O.S. [A mixture of sodium percarbonate [$2Na_2CO_3 \cdot 3H2O_2$], sodium carbonate [Na_2CO_3], sodium silicate and silica gel.]
UN Number:	1479
Hazard Class:	5.1
Labels:	5.1 (Oxidizer)
Packaging Group:	III

Section 14 – Other Information

HMIS® Rating	Health – 1 (slight)	Reactivity – 1 (slight)
	Flammability – 0 (none)	Lab PPE – goggles, gloves, and lab coat

HMIS® is a registered trademark of the National Painting and Coating Association.

Section 15 – Further Information

The information contained in this document is the best available to the supplier at the time of writing, but is provided without warranty of any kind. Some possible hazards have been determined by analogy to similar classes of material. The items in this document are subject to change and clarification as more information become available. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

RegenOx® – Part B (Activator Complex)

Material Safety Data Sheet (MSDS)

Last Revised: June 4, 2010

Section 1 – Supplier Information and Material Identification

Supplier:

REGENESIS

1011 Calle Sombra
San Clemente, CA 92673
Telephone: 949.366.8000
Fax: 949.366.8090
E-mail: info@regenesis.com

Chemical Description:	A mixture of sodium silicate solution, silica gel and ferrous sulfate
Chemical Family:	Inorganic Chemicals
Trade Name:	RegenOx® – Part B (Activator Complex)
Product Use:	Used for environmental remediation of contaminated soils and groundwater

Section 2 – Chemical Information/Other Designations

CAS No.	Chemical
1344-09-8	Silicic Acid, Sodium Salt, Sodium Silicate
63231-67-4	Silica Gel
7720-78-7	Ferrous Sulfate
7732-18-5	Water

Section 3 – Physical Data

Form:	Liquid
Color:	Blue/Green
Odor:	Odorless
Melting Point:	NA
Boiling Point:	NA
Flammability/Flash Point:	NA
Vapor Pressure:	NA

Section 3 – Physical Data (cont)

Specific Gravity	1.39 g/cm^3
Solubility:	Miscible
Viscosity:	NA
pH (3% solution):	11
Hazardous Decomposition Products:	Oxides of carbon and silicon may be formed when heated to decomposition.

Section 4 – Reactivity Data

Stability:	Stable under normal conditions.
Conditions to Avoid:	None.
Incompatibility:	Avoid hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, oxidizers, aluminum, fiberglass, copper, brass, zinc, and galvanized containers.

Section 5 – Regulations

TSCA Inventory Listed:	Yes

CERCLA Hazardous Substance (40 CFR Part 302)

Listed Substance:	*No*
Unlisted Substance:	*Yes*

SARA, Title III, Sections 302/303 (40 CFR Part 355) – Emergency Planning and Notification

Extremely Hazardous Substance:	No

SARA, Title III, Sections 311/312 (40 CFR Part 370) – Hazardous Chemical Reporting: Community Right-To-Know

Hazard Category:	Acute

SARA, Title III, Sections 313 (40 CFR Part 372) – Toxic Chemical Release Reporting: Community Right-To-Know

Extremely Hazardous Substance:	No

Section 6 – Protective Measures, Storage and Handling

Technical Protective Measures

Storage:	Keep in a tightly closed container (steel or plastic) and store in a cool, well ventilated area away from all incompatible materials (acids, reactive metals, and ammonium salts). Store in a dry location away from heat above 60 degrees C and colder than 10 degrees C. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.
Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Use with adequate ventilation. Do not use product if it is brownish-yellow in color.

Personal Protective Equipment (PPE)

Engineering Controls:	General room ventilation is required if used indoors. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Safety shower and eyewash station should be within direct access.
Respiratory Protection:	Use NIOSH-approved dust and mist respirator where spray mist exists. Respirators should be used in accordance with 29 CFR 1910.134.
Hand Protection:	Wear chemical resistant gloves.
Eye Protection:	Wear chemical safety goggles. A full face shield may be worn in lieu of safety goggles.
Skin Protection:	Try to avoid skin contact with this product. Gloves and protective clothing should be worn during use.
Other:	
Protection Against Fire & Explosion:	Product is non-explosive and non-combustible.

Section 7 – Hazards Identification

Potential Health Effects

Inhalation:	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, and irritations to mucous membranes, nose and throat.
Eye Contact:	Causes irritation, redness and pain.
Skin Contact:	Causes irritation. Symptoms include redness, itching and pain.
Ingestion:	May cause irritation to mouth, esophagus, and stomach.

Section 8 – Measures in Case of Accidents and Fire

After Spillage/Leakage (small):	Mop up and neutralize liquid, then discharge to sewer in accordance with local, state and federal regulations.
After Spillage/Leakage (large):	Keep unnecessary personnel away; isolate hazard area and do not allow entrance into the affected area. Do not touch or walk through spilled material. Stop leak if possible without risking injury. Prevent runoff from entering into storm sewers and ditches that lead to natural waterways. Isolate the material if at all possible. Sand or earth may be used to contain the spill. If containment is not possible, neutralize the contaminated area and flush with large quantities of water.
Extinguishing Media:	Material is compatible with all extinguishing media.
Further Information:	

First Aid

Eye Contact:	Flush eyes with running water for at least 15 minutes with eyelids held open. Seek a specialist.
Inhalation:	Remove affected person to fresh air. Give artificial respiration if individual is not breathing. If breathing is difficult, give oxygen. Seek medical attention if the effects persist.
Ingestion:	If the individual is conscious and not convulsing, give two-four cups of water to dilute the chemical and seek medical attention immediately. **DO NOT** induce vomiting.
Skin Contact:	Wash affected areas with soap and a mild detergent and large amounts of water. Remove contaminated clothing and shoes.

Section 9 – Accidental Release Measures

Precautions:

PPE:	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots (see Section 6).
Environmental Hazards:	Sinks and mixes with water. High pH of this material may be harmful to aquatic life. Only water will evaporate from a spill of this material.
Cleanup Methods:	Pick-up and place in an appropriate container for reclamation or disposal. US regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

Section 10 – Information on Toxicology

Toxicity Data

Sodium Silicate:	When tested for primary eye irritation potential according to OECD Guidelines, Section 405, a similar sodium silicate solution produced corneal, iridal and conjunctival irritation. Some eye irritation was still present 14 days after treatment, although the average primary irritation score has declined from 29.7 after 1 day to 4.0 after 14 days. When tested for primary skin irritation potential, a similar sodium silicate solution produced irritation with a primary irritation index of 3 to abraded skin and 0 to intact skin. Human experience confirms that irritation occurs when sodium silicates get on clothes at the collar, cuffs, or other areas where abrasion may exist. The acute oral toxicity of this product has not been tested.
Ferrous Sulfate:	LD50 Oral (rat): 319 mg/kg not a suspected carcinogen.

Section 11 – Information on Ecology

Ecology Data

Ecotoxicological Information:	Based on 100% solid sodium silicate, a 96 hour median tolerance for fish of 2,320 mg/l; a 96 hour median tolerance for water fleas of 247 mg/L; a 96 hour median tolerance for snail eggs of 632 mg/L; and a 96 hour median tolerance for Amphipoda of 160 mg/L.

Section 12 – Disposal Considerations

Waste Disposal Method

Waste Treatment:	Neutralize and landfill solids in an approved waste facility operated by an authorized contactor in compliance with local regulations.
Package (Pail) Treatment:	The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

Section 13 – Shipping/Transport Information

D.O.T.	This product is not regulated as a hazardous material so there are no restrictions.

Section 14 – Other Information

HMIS® Rating	Health – 2 (moderate)	Reactivity – 0 (none)
	Flammability – 0 (none)	Lab PPE – goggles, gloves, and lab coat
	Contact – 1 (slight)	

HMIS® is a registered trademark of the National Painting and Coating Association.

Section 15 – Further Information

The information contained in this document is the best available to the supplier at the time of writing, but is provided without warranty of any kind. Some possible hazards have been determined by analogy to similar classes of material. The items in this document are subject to change and clarification as more information become available. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

SAFETY DATA SHEET

SILVER

Section 1. Identification

GHS product identifier	:	SILVER
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC01054908
Product type	:	liquid

Relevant identified uses of the substance or mixture and uses advised against

Product use	:	Industrial applications. Plastics.
Supplier's details	:	**POLYONE CORPORATION** ColorMatrix Group Inc. 680 North Rocky River Drive, Berea, Ohio, 44017-1628, USA +1 216 622 0100
Emergency telephone number (with hours of operation)	:	**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**

Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	SKIN CORROSION/IRRITATION - Category 2

GHS label elements

Hazard pictograms :

Signal word : Warning
Hazard statements : Causes skin irritation.

Precautionary statements

General : Not applicable.
Prevention : Wear protective gloves. Wash hands thoroughly after handling.
Response : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
Storage : Not applicable.
Disposal : Not applicable.
Supplemental label elements : None known.
Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : Mixture
Other means of identification : CC01054908

CAS number/other identifiers

Ingredient name	%	CAS number
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 30	Not available.
Titanium dioxide	10 - 30	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	Causes serious eye irritation.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes skin irritation.
Ingestion	:	Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact	:	Adverse symptoms may include the following: pain or irritation

		watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium dioxide	**OSHA PEL 1989 (1989-03-01)** PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust **OSHA PEL (1993-06-30)** PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust **ACGIH TLV (1996-05-18)** TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated

clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : liquid [liquid]
Color : SILVER
Odor : Faint odor.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.
Flash point : Not available.
Burning time : Not available.

Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	**Lower:** Not available. **Upper:** Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	**Dynamic:** Not available. **Kinematic:** Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide				

	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

Conclusion/Summary
Skin : Mixture.Not fully tested.
Eyes : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Sensitization

Conclusion/Summary
Skin : Mixture.Not fully tested.
Respiratory : Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.
Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium dioxide		2B	

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard

Product/ingredient name	Result

Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation.
Ingestion : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following:
irritation
redness
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Mixture.Not fully tested.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	8.073 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Mummichog	96 h
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute LC50 6.5 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	:	Not regulated for transportation.
ICAO/IATA	:	Not classified as dangerous good under transport regulations.
IMO/IMDG (maritime)	:	Not classified as dangerous good under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations : **United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
United States - TSCA 4(a) - Final Test Rules: Not listed
United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed

United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a)2 - Final significant new use rules: Not listed
United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed
United States - TSCA 5(e) - Substances consent order: Not listed
United States - TSCA 6 - Final risk management: Not listed
United States - TSCA 6 - Proposed risk management: Not listed
United States - TSCA 8(a) - Chemical risk rules: Not listed
United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined
United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed
United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed
United States - TSCA 8(d) - Health and safety studies: Not listed
United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed **Chromium (III) oxide**

United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed
United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed
United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed
United States - Department of commerce - Precursor chemical: Not listed

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Classification
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 30	AH
Titanium dioxide	10 - 30	CH

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Aluminum	7429-90-5	1 - 5
Supplier notification	Aluminum	7429-90-5	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed:
Mica
Titanium dioxide
Aluminum

New York : None of the components are listed.

New Jersey : The following components are listed:
Mica
Titanium dioxide
Aluminum

Pennsylvania : The following components are listed:
Titanium dioxide

Aluminum

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory : All components are listed or exempted.

International regulations

International lists	:	**Australia inventory (AICS):** Not determined. **Taiwan inventory (CSNN):** Not determined. **Malaysia Inventory (EHS Register):** Not determined. **EINECS:** All components are listed or exempted. **Japan inventory:** Not determined. **China inventory (IECSC):** All components are listed or exempted. **Korea inventory:** All components are listed or exempted. **New Zealand Inventory of Chemicals (NZIoC):** Not determined. **Philippines inventory (PICCS):** All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed

Section 16. Other information

History

Date of printing	:	06/04/2015
Date of issue/Date of revision	:	06/03/2015
Date of previous issue	:	11/20/2014
Version	:	1.1
Key to abbreviations	:	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

1. Identification

Product identifier: Trichloroethylene

Other means of identification
Product No.: 9464, 8600, 9458, 9454

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	Customer Service: 855-282-6867
Fax:	
Contact Person:	Environmental Health & Safety
e-mail:	info@avantormaterials.com

Emergency telephone number:
24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B
Specific Target Organ Toxicity - Single Exposure	Category 3

Environmental Hazards

Chronic hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: May cause cancer.
Suspected of causing genetic defects.
Causes serious eye irritation.
Causes skin irritation.
Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
TRICHLOROETHYLENE		79-01-6	99 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Contact with metals may evolve flammable hydrogen gas. Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling: Use personal protective equipment as required. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities: Store locked up. Keep in a cool, well-ventilated place. Store in a dry place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
TRICHLOROETHYLENE	TWA	10 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	25 ppm	US. ACGIH Threshold Limit Values (2011)
	REL	25 ppm	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	50 ppm 270 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	200 ppm 1,080 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	100 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	AN ESL	54 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (12 2010)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
TRICHLOROETHYLENE (Trichloroacetic acid: Sampling time: End of shift at end of work week.)	15 mg/l (Urine)	ACGIH BEL (03 2013)
TRICHLOROETHYLENE (Trichloroethanol, without hydrolysis: Sampling time: End of shift at end of work week.)	0.5 mg/l (Blood)	ACGIH BEL (03 2013)

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Ether-like odor
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	-84.7 °C
Initial boiling point and boiling range:	87.2 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	10.5 %(V) 90 %(V)
Flammability limit - lower (%):	8 %(V) 12.5 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	9.2 kPa (25 °C)
Vapor density:	4.53 AIR=1
Relative density:	1.47 (20 °C)
Solubility(ies)	
Solubility in water:	1 g/l (20 °C)
Solubility (other):	acetone: Soluble ethanol: Soluble
Partition coefficient (n-octanol/water):	2.61
Auto-ignition temperature:	420 °C
Decomposition temperature:	No data available.
Viscosity:	No data available.

Other information

Molecular weight:	131.39 g/mol (C_2HCl_3)

10. Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Heat, sparks, flames. Light. Moisture. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents. Alkalies. Caustics. Chemically active metals.

Hazardous Decomposition Products: By heating and fire, toxic vapors/gases may be formed. Oxides of Carbon. Phosgene.

11. Toxicological information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: May be harmful if inhaled.

Skin Contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: LD 50 (Rat): 4,920 mg/kg

Dermal
Product: No data available.

Inhalation
Product: LC 50 (Rat, 4 h): 12000 ppm

Repeated Dose Toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation
Product: Causes serious eye irritation.

Respiratory or Skin Sensitization
Product: Not a skin sensitizer.

Carcinogenicity
Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

TRICHLOROETHYLENE	Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:

TRICHLOROETHYLENE	Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: Suspected of causing genetic defects.

In vivo
Product: Suspected of causing genetic defects.

Reproductive Toxicity
Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product: May cause respiratory irritation. May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: Not classified

Other Effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
TRICHLOROETHYLENE LC 50 (Fathead minnow (Pimephales promelas), 96 h): 31.4 - 71.8 mg/l Mortality
LC 50 (Bluegill (Lepomis macrochirus), 96 h): 39 - 54 mg/l Mortality
EC 50 (Fathead minnow (Pimephales promelas), 96 h): 18.4 - 28.5 mg/l Intoxication

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
TRICHLOROETHYLENE LC 50 (Water flea (Daphnia magna), 48 h): 12 - 26 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: There are no data on the degradability of this product.

BOD/COD Ratio
Product: No data available.

Bioaccumulative Potential
Bioconcentration Factor (BCF)
Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: 2.61

Mobility in Soil: The product is water soluble and may spread in water systems.

Other Adverse Effects: Harmful to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1710
UN Proper Shipping Name:	Trichloroethylene
Transport Hazard Class(es)	
Class(es):	6.1
Label(s):	6.1
Packing Group:	III
Marine Pollutant:	No

IMDG

UN Number:	UN 1710
UN Proper Shipping Name:	TRICHLOROETHYLENE
Transport Hazard Class(es)	
Class(es):	6.1
Label(s):	6.1
EmS No.:	F-A, S-A
Packing Group:	III
Marine Pollutant:	No

IATA

UN Number:	UN 1710
Proper Shipping Name:	Trichloroethylene
Transport Hazard Class(es):	
Class(es):	6.1
Label(s):	6.1
Marine Pollutant:	No
Packing Group:	III

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
TRICHLOROETHYLENE Reportable quantity: 100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

[X] Acute (Immediate) [X] Chronic (Delayed) [ ] Fire [ ] Reactive [ ] Pressure Generating

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	RQ
TRICHLOROETHYLENE	100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
TRICHLOROETHYLENE	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
TRICHLOROETHYLENE	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
TRICHLOROETHYLENE Reportable quantity: 100 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
TRICHLOROETHYLENE Carcinogenic.
TRICHLOROETHYLENE Male reproductive toxin.
TRICHLOROETHYLENE Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act
TRICHLOROETHYLENE Listed

US. Massachusetts RTK - Substance List
TRICHLOROETHYLENE Listed

US. Pennsylvania RTK - Hazardous Substances
TRICHLOROETHYLENE Listed

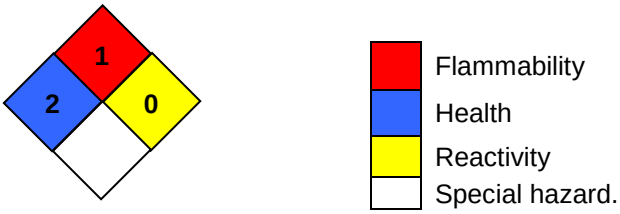
US. Rhode Island RTK
TRICHLOROETHYLENE Listed

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:	01-08-2015
Revision Date:	No data available.
Version #:	1.1
Further Information:	No data available.

Disclaimer:

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SAFETY DATA SHEET

Creation Date 10-Dec-2009 **Revision Date** 06-Nov-2015 **Revision Number** 2

1. Identification

Product Name **Tetrachloroethylene**

Cat No. : **AC167890000; AC167890010; AC167890025; AC167890100; AC167891000; AC167895000**

Synonyms Perchloroethylene

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Entity / Business Name
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Emergency Telephone Number
For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11
Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99
CHEMTREC Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver, Blood.	

Label Elements

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
May cause cancer
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Response
IF exposed or concerned: Get medical attention/advice
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Skin
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Toxic to aquatic life with long lasting effects
WARNING! This product contains a chemical known in the State of California to cause cancer.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Tetrachloroethylene	127-18-4	>95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.

Ingestion Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects Breathing difficulties. . May cause allergic skin reaction. Inhalation of high vapor

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point No information available
Method - No information available

Autoignition Temperature No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Containers may explode when heated.

Hazardous Combustion Products
Chlorine Hydrogen chloride gas Phosgene
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

6. Accidental release measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetrachloroethylene	TWA: 25 ppm STEL: 100 ppm	(Vacated) TWA: 25 ppm (Vacated) TWA: 170 mg/m^3 Ceiling: 200 ppm TWA: 100 ppm	IDLH: 150 ppm

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Tetrachloroethylene	TWA: 25 ppm TWA: 170 mg/m^3 STEL: 100 ppm STEL: 685 mg/m^3	TWA: 100 ppm TWA: 670 mg/m^3 TWA: 200 ppm TWA: 1250 mg/m^3 STEL: 200 ppm STEL: 1340 mg/m^3	TWA: 25 ppm STEL: 100 ppm

Legend

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	Characteristic, sweet
Odor Threshold	No information available
pH	No information available
Melting Point/Range	-22 °C / -7.6 °F
Boiling Point/Range	120 - 122 °C / 248 - 251.6 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	6.0 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	18 mbar @ 20 °C
Vapor Density	No information available
Specific Gravity	1.625
Solubility	0.15 g/L water (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 150°C
Viscosity	0.89 mPa s at 20 °C
Molecular Formula	C2 Cl4
Molecular Weight	165.83

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible Materials Strong acids, Strong oxidizing agents, Strong bases, Metals, Zinc, Amines

Hazardous Decomposition Products Chlorine, Hydrogen chloride gas, Phosgene

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrachloroethylene	LD50 = 2629 mg/kg (Rat)	LD50 > 10000 mg/kg (Rat)	LC50 = 27.8 mg/L (Rat) 4 h

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes and skin

Sensitization May cause sensitization by skin contact

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Tetrachloroethylene	127-18-4	Group 2A	Reasonably Anticipated	A3	X	A3

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

ACGIH: (American Conference of Governmental Industrial Hygienists)

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
ACGIH: (American Conference of Governmental Industrial Hygienists)

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure Respiratory system Central nervous system (CNS)
STOT - repeated exposure Kidney Liver Blood

Aspiration hazard No information available

Symptoms / effects,both acute and delayed Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest

pain, muscle pain or flushing

Endocrine Disruptor Information

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Tetrachloroethylene	Group II Chemical	Not applicable	Not applicable

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Tetrachloroethylene	EC50: > 500 mg/L, 96h (Pseudokirchneriella subcapitata)	LC50: 4.73 - 5.27 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 11.0 - 15.0 mg/L, 96h static (Lepomis macrochirus) LC50: 8.6 - 13.5 mg/L, 96h static (Pimephales promelas) LC50: 12.4 - 14.4 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 100 mg/L 24 h EC50 = 112 mg/L 24 h EC50 = 120.0 mg/L 30 min	EC50: 6.1 - 9.0 mg/L, 48h Static (Daphnia magna)

Persistence and Degradability Insoluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

Component	log Pow
Tetrachloroethylene	2.88

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Tetrachloroethylene - 127-18-4	U210	-

14. Transport information

DOT

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Packing Group III

TDG

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Packing Group III

IATA

UN-No UN1897
Proper Shipping Name TETRACHLOROETHYLENE
Hazard Class 6.1
Packing Group III

IMDG/IMO

UN-No	UN1897
Proper Shipping Name	TETRACHLOROETHYLENE
Hazard Class	6.1
Packing Group	III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Tetrachloroethylene	X	X	-	204-825-9	-		X	X	X	X	X

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Tetrachloroethylene	127-18-4	>95	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Tetrachloroethylene	-	-	X	X

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Tetrachloroethylene	X		-

OSHA Occupational Safety and Health Administration
Not applicable

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tetrachloroethylene	100 lb 1 lb	-

California Proposition 65 This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Tetrachloroethylene	127-18-4	Carcinogen	14 µg/day	Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Tetrachloroethylene	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant Y
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D1B Toxic materials
D2A Very toxic materials

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 10-Dec-2009
Revision Date 06-Nov-2015
Print Date 06-Nov-2015
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS

SAFETY DATA SHEET

1. Identification

Product identifier: TOLUENE

Other means of identification
Product No.: 9457, 4483, V560, 8604, 9476, 9466, 9460, 9456, 9364, 9351, 9336, 8608

Recommended use and restriction on use

Recommended use: Not available.
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200 Center Valley, PA 18034
Telephone:	Customer Service: 855-282-6867
Fax:	
Contact Person:	Environmental Health & Safety
e-mail:	info@avantormaterials.com

Emergency telephone number:
24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard classification

Physical hazards

Flammable liquids	Category 2

Health hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation - vapor)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Toxic to reproduction	Category 2
Specific target organ toxicity - single exposure	Category 3
Specific target organ toxicity - repeated exposure	Category 2
Aspiration hazard	Category 1

Environmental hazards

Acute hazards to the aquatic environment	Category 2

Label elements

Hazard symbol:

Signal word: Danger

Hazard statement: Highly flammable liquid and vapor.
Harmful if swallowed or if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life.

Precautionary statement

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

Response: In case of fire: Use water spray, foam, dry powder or carbon dioxide for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage: Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
TOLUENE		108-88-3	99 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion: Call a physician or poison control center immediately. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air. Get medical attention immediately.

Skin contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: Harmful if swallowed. May be fatal if swallowed. Harmful if inhaled. Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General fire hazards: In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Chemical identity	Type	Exposure Limit values		Source
TOLUENE	TWA	20 ppm		US. ACGIH Threshold Limit Values (2011)
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)

Biological limit values

Chemical identity	Exposure Limit values	Source
TOLUENE (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (2011)
TOLUENE (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (2011)
TOLUENE (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (2011)

Appropriate engineering controls No data available.

Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	Liquid
Color:	Colorless
Odor:	Sweet aromatic odor
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	-94.9 °C
Initial boiling point and boiling range:	110 °C
Flash Point:	4 °C (Closed Cup)
Evaporation rate:	2.24 (butyl acetate=1)
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	7.1 %(V)
Flammability limit - lower (%):	1.1 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	3.8 kPa (25 °C)
Vapor density:	3.1 AIR=1
Relative density:	0.86 (20 °C)
Solubility(ies)	
Solubility in water:	0.7 g/l (23.3 °C)
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	2.73
Auto-ignition temperature:	480 °C
Decomposition temperature:	No data available.
Viscosity:	No data available.

Other information

Molecular weight:	92.14 g/mol (C_7H_8)

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Heat, sparks, flames.
Incompatible materials:	Strong oxidizing agents. Chlorine.
Hazardous decomposition products:	Thermal decomposition may release oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	Harmful if swallowed.
Inhalation:	Harmful if inhaled. May cause irritation to the mucous membranes and upper respiratory tract.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: LD 50 (Rat): 636 mg/kg

Dermal
Product: LD 50 (Rabbit): 12,124 mg/kg

Inhalation
Product: LC 50 (Mouse, 24 h): 400 mg/l
LC 50 (Rat, 4 h): 8,000 mg/l

Repeated dose toxicity
Product: No data available.

Skin corrosion/irritation
Product: Causes skin irritation.

Serious eye damage/eye irritation
Product: Causes serious eye irritation.

Respiratory or skin sensitization
Product: Not a skin sensitizer.

Carcinogenicity
Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ cell mutagenicity

In vitro
Product: No mutagenic components identified

In vivo
Product: No mutagenic components identified

Reproductive toxicity
Product: May damage fertility or the unborn child.

Specific target organ toxicity - single exposure
Product: Narcotic effect. Respiratory tract irritation.

Specific target organ toxicity - repeated exposure
Product: Peripheral nervous system Central nervous system. Kidneys. auditory organs

Aspiration hazard
Product: May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

TOLUENE — LC 50 (Fathead minnow (Pimephales promelas), 96 h): 12.6 mg/l Mortality
LC 50 (Coho salmon,silver salmon (Oncorhynchus kisutch), 96 h): 5.5 mg/l Mortality

Aquatic invertebrates

Product: No data available.

Specified substance(s):

TOLUENE — EC 50 (Brine shrimp (Artemia sp.), 24 h): 22.1 - 54.1 mg/l Intoxication
EC 50 (Water flea (Daphnia magna), 48 h): 5.46 - 9.83 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and degradability

Biodegradation

Product: Expected to be readily biodegradable.

BOD/COD ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product: Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Partition coefficient n-octanol / water (log Kow)

Product: Log Kow: 2.73

Mobility in soil: The product is insoluble in water and will spread on the water surface.

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

Contaminated packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number:	UN 1294
UN proper shipping name:	Toluene
Transport hazard class(es)	
Class(es):	3
Label(s):	3
Packing group:	II
Marine Pollutant:	No

IMDG

UN number:	UN 1294
UN proper shipping name:	TOLUENE
Transport hazard class(es)	
Class(es):	3
Label(s):	3
EmS No.:	F-E, S-D
Packing group:	II
Marine Pollutant:	No

IATA

UN number:	UN 1294
Proper Shipping Name:	Toluene
Transport hazard class(es):	
Class(es):	3
Label(s):	3
Marine Pollutant:	No
Packing group:	II

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

TOLUENE Reportable quantity: 1000 lbs.

Superfund amendments and reauthorization act of 1986 (SARA)

Hazard categories

[X] Acute (Immediate) [X] Chronic (Delayed) [X] Fire [ ] Reactive [ ] Pressure Generating

SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

SARA 304 Emergency release notification

Chemical identity	RQ
TOLUENE	1000 lbs.

SARA 311/312 Hazardous chemical

Chemical identity	Threshold Planning Quantity
TOLUENE	500 lbs

SARA 313 (TRI reporting)

Chemical identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
TOLUENE	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

TOLUENE Reportable quantity: 1000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US state regulations

US. California Proposition 65

TOLUENE Developmental toxin.
TOLUENE Female reproductive toxin.

US. New Jersey Worker and Community Right-to-Know Act

TOLUENE Listed

US. Massachusetts RTK - Substance List

TOLUENE Listed

US. Pennsylvania RTK - Hazardous Substances

TOLUENE Listed

US. Rhode Island RTK

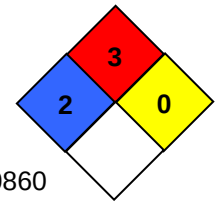
TOLUENE Listed

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	On or in compliance with the inventory
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Switzerland Consolidated Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Flammability
Health

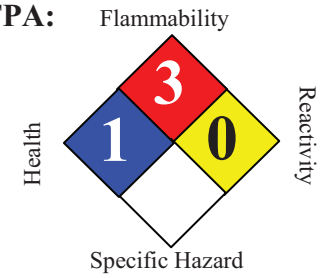
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date:	06-12-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.
Disclaimer:	THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED “AS IS,” AND AVANTOR PERFORMANCE MATERIALS MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION<(>,<)> WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, AVANTOR PERFORMANCE MATERIALS ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. AVANTOR PERFORMANCE MATERIALS REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES.

Safety Data Sheet
Gasoline, Unleaded

NFPA:



SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Gasoline, Unleaded			
Synonyms	:	Blend of Highly Flammable Petroleum Distillates, Regular, Mid-Grade, Premium, 888100008809			
SDS Number	:	888100008809	**Version**	:	1.1
Product Use Description	:	Fuel			
Company	:	For: Tesoro Refining & Marketing Co. 19100 Ridgewood Parkway, San Antonio, TX 78259			
Tesoro Call Center	:	(877) 783-7676	**Chemtrec (Emergency Contact)**	:	(800) 424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classifications :
Flammable Liquid – Category 1 or 2 depending on formulation.
Aspiration Hazard – Category 1
Carcinogenicity – Category 2
Specific Target Organ Toxicity (Repeated Exposure) – Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3
Skin Irritation – Category 2
Eye Irritation – Category 2B
Chronic Aquatic Toxicity – Category 2

Pictograms :

Signal Word : **Danger**

Hazard Statements

Extremely flammable liquid and vapor.
May be fatal if swallowed and enters airways – do not siphon gasoline by mouth.
Suspected of causing blood cancer if repeated over-exposure by inhalation and/or skin contact occurs.
May cause damage to liver, kidneys and nervous system by repeated and prolonged inhalation or skin contact. Causes eye irritation. Can be absorbed through skin.
May cause drowsiness or dizziness. Extreme exposure such as intentional inhalation may cause unconsciousness, asphyxiation and death.
Repeated or prolonged skin contact can cause irritation and dermatitis.

Harmful to aquatic life.

Precautionary statements

Prevention : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, welding and hot surfaces.
No smoking.
Keep container tightly closed.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical equipment.
Use only non-sparking tools (if tools are used in flammable atmosphere).
Take precautionary measures against static discharge.
Wear gloves, eye protection and face protection (as needed to prevent skin and eye contact with liquid).
Wash hands or liquid-contacted skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe vapors.
Use only outdoors or in a well-ventilated area.

Response : In case of fire: Use dry chemical, CO2, water spray or fire fighting foam to extinguish.
If swallowed: Immediately call a poison center, doctor, hospital emergency room, medical clinic or 911. Do NOT induce vomiting. Rinse mouth.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin or eye irritation persists, get medical attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Get medical attention if you feel unwell.

Storage : Store in a well ventilated place. Keep cool. Store locked up. Keep container tightly closed . Use only approved containers. Some containers not approved for gasoline may dissolve and release flammable gasoline liquid and vapors.

Disposal : Dispose of contents/containers to approved disposal site in accordance with local, regional, national, and/or international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Weight %
Gasoline, natural; Low boiling point naphtha	8006-61-9	10 - 30%
Toluene	108-88-3	10 - 30%
Xylene	1330-20-7	10 - 30%
Ethanol; ethyl alcohol	64-17-5	0-8.2%
Trimethylbenzene	25551-13-7	1 - 5%
Isopentane; 2-methylbutane	78-78-4	1 - 5%

Naphthalene	91-20-3	1 - 5%
Benzene	71-43-2	Less than 1.3%
Pentane	109-66-0	1 - 5%
Cyclohexane	110-82-7	1 - 5%
Ethylbenzene	100-41-4	1 - 5%
Butane	106-97-8	1 - 20%
Heptane [and isomers]	142-82-5	0.5 - 0.75%
N-hexane	110-54-3	0.5 - 0.75%

SECTION 4. FIRST AID MEASURES

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Contaminated leather, particularly footwear, must be discarded. Note that contaminated clothing may be a fire hazard. Seek medical advice if symptoms persist or develop.

Eye contact : Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice if symptoms persist or develop.

Ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

Notes to physician : Symptoms: Dizziness, Discomfort, Headache, Nausea, Kidney disorders, Liver disorders. Aspiration may cause pulmonary edema and pneumonitis. Swallowing gasoline is more likely to be fatal for small children than adults, even if aspiration does not occur.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray or fire fighting foam. LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers. Keep containers and surroundings cool with water spray.

Specific hazards during fire fighting : Extremely flammable liquid and vapor. This material is combustible/flammable and is sensitive to fire, heat, and static discharge.

Special protective equipment for fire-fighters : Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Further information : Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam. Exposure to decomposition products may be a hazard to health. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Evacuate personnel to safe areas. Ventilate the area. Remove all sources of ignition. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental precautions : Discharge into the environment must be avoided. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling : Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled. The product should only be stored and handled in areas with intrinsically safe electrical classification.

Hydrocarbon liquids including this product can act as a non-conductive flammable liquid (or static accumulators), and may form ignitable vapor-air mixtures in storage tanks or other containers. Precautions to prevent static-initated fire or explosion during transfer, storage or handling, include but are not limited to these examples:

(1) Ground and bond containers during product transfers. Grounding and bonding may not be adequate protection to prevent ignition or explosion of hydrocarbon liquids and vapors that are static accumulators.
(2) Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil or diesel) is loaded into tanks previously containing low flash point products (such gasoline or naphtha).
(3) Storage tank level floats must be effectively bonded.

For more information on precautions to prevent static-initated fire or explosion, see NFPA 77, Recommended Practice on Static Electricity (2007), and API Recommended Practice 2003, Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents (2008).

Conditions for safe storage, including incompatibilities : Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

Reports suggest that government-mandated ethanol, if present, may not be compatible with fiberglass gasoline tanks. Ethanol may dissolve fiberglass resin, causing engine damage and possibly allow leakage of explosive gasoline.

Keep away from food, drink and animal feed. Incompatible with oxidizing agents. Incompatible with acids.

No decomposition if stored and applied as directed. Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Store only in containers approved and labeled for gasoline.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

List	Components	CAS-No.	Type:	Value
OSHA	Benzene	71-43-2	TWA	1 ppm
		71-43-2	STEL	5 ppm
		71-43-2	OSHA_ACT	0.5 ppm
OSHA Z1	Xylene	1330-20-7	PEL	100 ppm 435 mg/m3
	Ethanol; Ethyl alcohol	64-17-5	PEL	1,000 ppm 1,900 mg/m3
	Naphthalene	91-20-3	PEL	10 ppm 50 mg/m3
	Cyclohexane	110-82-7	PEL	300 ppm 1,050 mg/m3
	Ethylbenzene	100-41-4	PEL	100 ppm 435 mg/m3
	Heptane [and isomers]	142-82-5	PEL	500 ppm 2,000 mg/m3
	N-hexane	110-54-3	PEL	500 ppm 1,800 mg/m3
ACGIH	Toluene	108-88-3	TWA	50 ppm
	Xylene	1330-20-7	TWA	100 ppm
		1330-20-7	STEL	150 ppm
	Ethanol; Ethyl alcohol	64-17-5	TWA	1,000 ppm
	Trimethylbenzene	25551-13-7	TWA	25 ppm
	Isopentane; 2-Methylbutane	78-78-4	TWA	600 ppm
	Naphthalene	91-20-3	TWA	10 ppm
		91-20-3	STEL	15 ppm
	Benzene	71-43-2	TWA	0.5 ppm
		71-43-2	STEL	2.5 ppm
	Pentane	109-66-0	TWA	600 ppm
	Cyclohexane	110-82-7	TWA	100 ppm
	Ethylbenzene	100-41-4	TWA	100 ppm
		100-41-4	STEL	125 ppm
	Heptane [and isomers]	142-82-5	TWA	400 ppm
		142-82-5	STEL	500 ppm

	N-hexane	110-54-3	TWA	50 ppm

Engineering measures : Use adequate ventilation to keep gas and vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Use only intrinsically safe electrical equipment approved for use in classified areas.

Eye protection : Safety glasses or goggles are recommended where there is a possibility of splashing or spraying. Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection : Gloves constructed of nitrile or neoprene are recommended. Consult manufacturer specifications for further information.

Skin and body protection : If needed to prevent skin contact, chemical protective clothing such as of DuPont TyChem®, Saranex or equivalent recommended based on degree of exposure. Flame resistant clothing such as Nomex ® is recommended in areas where material is stored or handled.

Respiratory protection : A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection. Use a NIOSH/ MSHA-approved positive-pressure supplied-air respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

Work / Hygiene practices : Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to straw colored liquid

Odor : Characteristic hydrocarbon-like

Odor threshold 0.5 - 1.1 ppm

pH : Not applicable

Melting point/freezing point About -101°C (-150°F)

Initial boiling point & range Boiling point varies: 30 – 200°C (85 – 392°F)

Flash point < -21°C (-5.8°F)

Evaporation rate : Higher initially and declining as lighter components evaporate

Flammability (solid, gas) : Flammable vapor released by liquid

Upper explosive limit	7.6 %(V)
Lower explosive limit	1.3 %(V)
Vapor pressure	345 - 1,034 hPa at 37.8 °C (100.0 °F)
Vapor density (air = 1)	Approximately 3 to 4
Relative density (water = 1)	0.8 g/mL
Solubility (in water)	Negligible
Partition coefficient (n-octanol/water)	2 – 7 as log Pow
Auto-ignition temperature	Approximately 250°C (480°F)
Decomposition temperature	Will evaporate or boil and possibly ignite before decomposition occurs.
Kinematic viscosity	0.64 to 0.88 mm²/s range reported for gasoline
Conductivity (conductivity can be reduced by environmental factors such as a decrease in temperature)	: Hydrocarbon liquids without static dissipater additive may have conductivity below 1 picoSiemens per meter (pS/m). The highest electro-static ignition risks are associated with ”ultra-low conductivities” below 5 pS/m. See Section 7 for sources of information on defining safe loading and handling procedures for low conductivity products.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Vapors may form explosive mixture with air. Hazardous polymerization does not occur.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	Can react with strong oxidizing agents, peroxides, alkaline products and strong acids. Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.
Conditions to avoid	: Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge (see Section 7).
Hazardous decomposition products	: Ignition and burning can release carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Skin contact	: Irritating to skin. Can be partially absorbed through skin.
Eye contact	: Irritating to eyes.
Ingestion	: Aspiration hazard if liquid is inhaled into lungs, particularly from vomiting after ingestion. Aspiration may result in chemical pneumonia, severe lung damage, respiratory failure and even death. Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death may occur.

Inhalation and further information

Acute toxicity of benzene results primarily from depression of the central nervous system (CNS). Inhalation of concentrations over 50 ppm can produce headache, lassitude, weariness, dizziness, drowsiness, over excitation. Exposure to very high levels can result in unconsciousness and death.

Repeated over-exposure may cause liver and kidney injuries.
Components of the product may affect the nervous system.

IARC has determined that gasoline and gasoline exhaust are possibly carcinogenic in humans. Inhalation exposure to completely vaporized unleaded gasoline caused kidney cancers in male rats and liver tumors in female mice. The U.S. EPA has determined that the male kidney tumors are species-specific and are irrelevant for human health risk assessment. The significance of the tumors seen in female mice is not known. Exposure to light hydrocarbons in the same boiling range as this product has been associated in animal studies with effects to the central and peripheral nervous systems, liver, and kidneys. The significance of these animal models to predict similar human response to gasoline is uncertain.
This product contains benzene. Human health studies indicate that prolonged and/or repeated overexposure to benzene may cause damage to the blood-forming system (particularly bone marrow), and serious blood disorders such as aplastic anemia and leukemia. Benzene is listed as a human carcinogen by the NTP, IARC, OSHA and ACGIH.

Component:

Gasoline, natural; Low boiling point naphtha	8006-61-9	Acute oral toxicity: LD50 rat Dose: 18.8 mg/kg Acute inhalation toxicity: LC50 rat Dose: 20.7 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Eye irritation: Classification: Irritating to eyes. Result: Moderate eye irritation
Toluene	108-88-3	Acute oral toxicity: LD50 rat Dose: 636 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 12,124 mg/kg Acute inhalation toxicity: LC50 rat Dose: 49 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Prolonged skin contact may defat the skin and produce dermatitis. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Xylene	1330-20-7	Acute oral toxicity: LD50 rat Dose: 2,840 mg/kg Acute dermal toxicity: LD50 rabbit Dose: ca. 4,500 mg/kg Acute inhalation toxicity: LC50 rat Dose: 6,350 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation

		Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Ethanol; Ethyl alcohol	64-17-5	Acute oral toxicity: LD50 rat Dose: 6,200 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 19,999 mg/kg Acute inhalation toxicity: LC50 rat Dose: 8,001 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Prolonged skin contact may cause skin irritation and/or dermatitis. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation Mild eye irritation
Naphthalene	91-20-3	Acute oral toxicity: LD50 rat Dose: 2,001 mg/kg Acute dermal toxicity: LD50 rat Dose: 2,501 mg/kg Acute inhalation toxicity: LC50 rat Dose: 101 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation Carcinogenicity: N11.00422130
Benzene	71-43-2	Acute oral toxicity: LD50 rat Dose: 930 mg/kg Acute inhalation toxicity: LC50 rat Dose: 44 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Risk of serious damage to eyes.
Pentane	109-66-0	Acute oral toxicity: LD50 rat Dose: 2,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 364 mg/l Exposure time: 4 h Skin irritation: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Cyclohexane	110-82-7	Acute dermal toxicity: LD50 rabbit Dose: 2,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 14 mg/l Exposure time: 4 h

		Skin irritation: Classification: Irritating to skin. Result: Skin irritation Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
Ethylbenzene	100-41-4	Acute oral toxicity: LD50 rat Dose: 3,500 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 15,500 mg/kg Acute inhalation toxicity: LC50 rat Dose: 18 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Mild skin irritation Eye irritation: Classification: Irritating to eyes. Result: Risk of serious damage to eyes.
Heptane [and isomers]	142-82-5	Acute oral toxicity: LD50 rat Dose: 15,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 103 g/m3 Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Skin irritation Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product. Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation
N-hexane	110-54-3	Acute oral toxicity: LD50 rat Dose: 25,000 mg/kg Acute dermal toxicity: LD50 rabbit Dose: 2,001 mg/kg Acute inhalation toxicity: LC50 rat Dose: 171.6 mg/l Exposure time: 4 h Skin irritation: Classification: Irritating to skin. Result: Skin irritation Eye irritation: Classification: Irritating to eyes. Result: Mild eye irritation Teratogenicity: N11.00418960

Carcinogenicity

NTP	:	Naphthalene (CAS-No.: 91-20-3) Benzene (CAS-No.: 71-43-2)
IARC	:	Gasoline, natural; Low boiling point naphtha (CAS-No.: 8006-61-9) Naphthalene (CAS-No.: 91-20-3) Benzene (CAS-No.: 71-43-2) Ethylbenzene (CAS-No.: 100-41-4)
OSHA	:	Benzene (CAS-No.: 71-43-2)
CA Prop 65	:	WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene (CAS-No.: 108-88-3)

Benzene (CAS-No.: 71-43-2)

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

Component:

Toluene	108-88-3	Toxicity to fish: LC50 Species: Carassius auratus (goldfish) Dose: 13 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 11.5 mg/l Exposure time: 48 h Toxicity to algae: IC50 Species: Selenastrum capricornutum (green algae) Dose: 12 mg/l Exposure time: 72 h
Ethanol; Ethyl alcohol	64-17-5	Toxicity to fish: LC50 Species: Leuciscus idus (Golden orfe) Dose: 8,140 mg/l Exposure time: 48 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 9,268 - 14,221 mg/l Exposure time: 48 h
Isopentane; 2-Methylbutane	78-78-4	Toxicity to fish: LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 3.1 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 2.3 mg/l Exposure time: 96 h
Naphthalene	91-20-3	Toxicity to algae: EC50 Species: Dose: 33 mg/l Exposure time: 24 h
Pentane	109-66-0	Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 9.74 mg/l Exposure time: 48 h
Cyclohexane	110-82-7	Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 3.78 mg/l Exposure time: 48 h

Heptane [and isomers]	142-82-5	Toxicity to fish: LC50 Species: Carassius auratus (goldfish) Dose: 4 mg/l Exposure time: 24 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 1.5 mg/l Exposure time: 48 h
N-hexane	110-54-3	Toxicity to fish: LC50 Species: Pimephales promelas (fathead minnow) Dose: 2.5 mg/l Exposure time: 96 h Acute and prolonged toxicity for aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Dose: 2.1 mg/l Exposure time: 48 h

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal : Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14. TRANSPORT INFORMATION

CFR

Proper shipping name	: Petrol
UN-No.	: 1203
Class	: 3
Packing group	: II

TDG

Proper shipping name	: Gasoline
UN-No.	: UN1203
Class	: 3
Packing group	: II

IATA Cargo Transport

UN UN-No.	: UN1203
Description of the goods	: Gasoline
Class	: 3
Packaging group	: II
ICAO-Labels	: 3
Packing instruction (cargo aircraft)	: 364
Packing instruction (cargo aircraft)	: Y341

IATA Passenger Transport

UN UN-No.	: UN1203
Description of the goods	: Gasoline
Class	: 3

Packaging group	:	II
ICAO-Labels	:	3
Packing instruction (passenger aircraft)	:	353
Packing instruction (passenger aircraft)	:	Y341

IMDG-Code

UN-No.	:	UN 1203
Description of the goods	:	Gasoline
Class	:	3
Packaging group	:	II
IMDG-Labels	:	3
EmS Number	:	F-E S-E
Marine pollutant	:	No

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid
Highly toxic by ingestion
Moderate skin irritant
Severe eye irritant
Carcinogen

TSCA Status : On TSCA Inventory

DSL Status : . All components are on the Canadian DSL list.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIROMENT)
The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil. Fractions of crude oil, and products (both finished and intermediate) from the crude oil refining process and any indigenous components of such from the CERCLA Section 103 reporting requirements. However, other federal reporting requirements, including SARA Section 304, as well as the Clean Water Act may still apply.

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene	108-88-3
Benzene	71-43-2

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision Date : 08/09/2012

6, 8, 10, 12, 14, 16, 64, 68, 91, 112, 306, 1092, 1106, 1500, 1570, 1571, 1651, 1652, 1654, 1700, 1701, 1702, 1710, 1711, 1714, 1726, 1729, 1730, 1732, 1733, 1826, 1848, 1880, 1950

SAFETY DATA SHEET

Creation Date 13-Feb-2015 **Revision Date** 21-Feb-2014 **Revision Number** 3

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Product Description:	**Xylene**
Cat No. :	**6601, 6615, 6655, 9900-5, 9900-55, 6601E**
Synonyms	Dimethylbenzene; Methyltoluene
Molecular Formula	C8H10

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Laboratory chemicals.
Uses advised against	No Information available

1.3. Details of the supplier of the safety data sheet

Company	Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270
E-mail address	begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids	Category 3

Health hazards

Aspiration Toxicity	Category 1
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Specific target organ toxicity - (repeated exposure)	Category 2

Environmental hazards

Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)	Xn - Harmful
R-phrase(s)	R10 - Flammable R38 - Irritating to skin R20/21 - Harmful by inhalation and in contact with skin

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word **Danger**

Hazard Statements

H226 - Flammable liquid and vapor
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/ protective clothing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P331 - Do NOT induce vomiting
P362 - Take off contaminated clothing and wash before reuse
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
Ethylbenzene	100-41-4	EEC No. 202-849-4	10 - 15	Flam. Liq. 2 (H225) Acute Tox. 4 (H332) Asp. Tox. 1 (H304) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	F; R11 Xn; R20-48/20 R65
Xylenes (o-, m-, p- isomers)	1330-20-7	EEC No. 215-535-7	85	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226)	R10 Xn; R20/21 Xi; R38
Toluene	108-88-3	EEC No. 203-625-9	0 - 0.5	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	F; R11 Xi; R38 Xn; R48/20-65 Repr.Cat.3; R63 R67
Benzene	71-43-2	EEC No. 200-753-7	0 - 0.01	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1A (H350) STOT RE 1 (H372)	F; R11 Xi; R36/38 Carc.Cat.1; R45 Muta.Cat.2; R46 T; R48/23/24/25

				Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	Xn; R65

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician immediately. SPEEDY ACTION IS CRITICAL, GET MEDICAL AID IMMEDIATELY. If symptoms persist, call a physician. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Protection of First-aiders Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
CO_2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons
No information available.

5.2. Special hazards arising from the substance or mixture

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO), Carbon dioxide (CO_2), Hydrocarbons, Aldehydes.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Pay attention to flashback. No information available. Do not take internally.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Component	European Union	The United Kingdom	France	Belgium	Spain
Ethylbenzene	TWA: 100 ppm 8 hr TWA: 442 mg/m³ 8 hr STEL: 200 ppm 15 min STEL: 884 mg/m³ 15 min Possibility of significant uptake through the skin	STEL: 125 ppm 15 min STEL: 552 mg/m³ 15 min TWA: 100 ppm 8 hr TWA: 441 mg/m³ 8 hr Skin	TWA / VME: 20 ppm (8 heures). restrictive limit TWA / VME: 88.4 mg/m³ (8 heures). restrictive limit TWA / VME: 1000 mg/m³ (8 heures). STEL / VLCT: 100 ppm. restrictive limit STEL / VLCT: 442	TWA: 100 ppm 8 uren TWA: 442 mg/m³ 8 uren STEL: 125 ppm 15 minuten STEL: 551 mg/m³ 15 minuten Huid	STEL / VLA-EC: 200 ppm (15 minutos). STEL / VLA-EC: 884 mg/m³ (15 minutos). TWA / VLA-ED: 100 ppm (8 horas) TWA / VLA-ED: 441 mg/m³ (8 horas) Piel

			mg/m³. restrictive limit STEL / VLCT: 1500 mg/m³. Peau		
Xylenes (o-, m-, p-isomers)	TWA: 50 ppm 8 hr TWA: 221 mg/m³ 8 hr STEL: 100 ppm 15 min STEL: 442 mg/m³ 15 min Possibility of significant uptake through the skin	STEL: 100 ppm 15 min STEL: 441 mg/m³ 15 min TWA: 50 ppm 8 hr TWA: 220 mg/m³ 8 hr Skin	TWA / VME: 50 ppm (8 heures). restrictive limit TWA / VME: 221 mg/m³ (8 heures). restrictive limit TWA / VME: 1000 mg/m³ (8 heures). STEL / VLCT: 100 ppm. restrictive limit STEL / VLCT: 442 mg/m³. restrictive limit STEL / VLCT: 1500 mg/m³. Peau	TWA: 50 ppm 8 uren TWA: 221 mg/m³ 8 uren STEL: 100 ppm 15 minuten STEL: 442 mg/m³ 15 minuten Huid	STEL / VLA-EC: 100 ppm (15 minutos). STEL / VLA-EC: 442 mg/m³ (15 minutos). TWA / VLA-ED: 50 ppm (8 horas) TWA / VLA-ED: 221 mg/m³ (8 horas) Piel
Toluene	TWA: 50 ppm 8 hr TWA: 192 mg/m³ 8 hr STEL: 100 ppm 15 min STEL: 384 mg/m³ 15 min Skin	STEL: 100 ppm 15 min STEL: 384 mg/m³ 15 min TWA: 50 ppm 8 hr TWA: 191 mg/m³ 8 hr Skin	TWA / VME: 20 ppm (8 heures). restrictive limit TWA / VME: 76.8 mg/m³ (8 heures). restrictive limit TWA / VME: 1000 mg/m³ (8 heures). STEL / VLCT: 100 ppm. restrictive limit STEL / VLCT: 384 mg/m³. restrictive limit STEL / VLCT: 1500 mg/m³. Peau	TWA: 20 ppm 8 uren TWA: 77 mg/m³ 8 uren STEL: 100 ppm 15 minuten STEL: 384 mg/m³ 15 minuten Huid	STEL / VLA-EC: 100 ppm (15 minutos). STEL / VLA-EC: 384 mg/m³ (15 minutos). TWA / VLA-ED: 50 ppm (8 horas) TWA / VLA-ED: 192 mg/m³ (8 horas) Piel
Benzene	TWA: 1 ppm 8 hr measured or calculated in relation to a reference period of eight hours TWA: 3.25 mg/m³ 8 hr measured or calculated in relation to a reference period of eight hours Substantial contribution to the total body burden via dermal exposure possible	STEL: 3 ppm 15 min STEL: 9.75 mg/m³ 15 min TWA: 1 ppm 8 hr TWA: 3.25 mg/m³ 8 hr Carc. Skin	TWA / VME: 1 ppm (8 heures). restrictive limit TWA / VME: 3.25 mg/m³ (8 heures). restrictive limit TWA / VME: 1000 mg/m³ (8 heures). STEL / VLCT: 1500 mg/m³. Peau	TWA: 1 ppm 8 uren TWA: 3.25 mg/m³ 8 uren Huid	TWA / VLA-ED: 1 ppm (8 horas) TWA / VLA-ED: 3.25 mg/m³ (8 horas) Piel

Component	Italy	Germany	Portugal	The Netherlands	Finland
Ethylbenzene	TWA: 100 ppm 8 ore. TWA: 442 mg/m³ 8 ore. STEL: 200 ppm 15 minuti. Breve termine STEL: 884 mg/m³ 15 minuti. Breve termine Pelle	TWA: 20 ppm (8 Stunden). AGW - exposure factor 2 TWA: 88 mg/m³ (8 Stunden). AGW - exposure factor 2 TWA: 20 ppm (8 Stunden). MAK TWA: 88 mg/m³ (8 Stunden). MAK Höhepunkt: 40 ppm Höhepunkt: 176 mg/m³ Haut	STEL: 200 ppm 15 minutos STEL: 884 mg/m³ 15 minutos TWA: 100 ppm 8 horas TWA: 442 mg/m³ 8 horas Pele	huid STEL: 430 mg/m³ 15 minuten TWA: 215 mg/m³ 8 uren	TWA: 50 ppm 8 tunteina TWA: 220 mg/m³ 8 tunteina STEL: 200 ppm 15 minuutteina STEL: 880 mg/m³ 15 minuutteina Iho
Xylenes (o-, m-, p-isomers)	TWA: 50 ppm 8 ore. pure TWA: 221 mg/m³ 8 ore. pure STEL: 100 ppm 15 minuti. Breve termine pure STEL: 442 mg/m³ 15 minuti. Breve termine pure Pelle	TWA: 100 ppm (8 Stunden). AGW - exposure factor 2 TWA: 440 mg/m³ (8 Stunden). AGW - exposure factor 2 TWA: 100 ppm (8 Stunden). MAK all isomers TWA: 440 mg/m³ (8 Stunden). MAK all isomers	STEL: 100 ppm 15 minutos STEL: 442 mg/m³ 15 minutos TWA: 50 ppm 8 horas TWA: 221 mg/m³ 8 horas Pele	huid STEL: 442 mg/m³ 15 minuten TWA: 210 mg/m³ 8 uren	TWA: 50 ppm 8 tunteina TWA: 220 mg/m³ 8 tunteina STEL: 100 ppm 15 minuutteina STEL: 440 mg/m³ 15 minuutteina Iho

		Höhepunkt: 200 ppm Höhepunkt: 880 mg/m³ Haut Haut all isomers			
Toluene	TWA: 50 ppm 8 ore. TWA: 192 mg/m³ 8 ore. Pelle	TWA: 50 ppm (8 Stunden). AGW - exposure factor 4 TWA: 190 mg/m³ (8 Stunden). AGW - exposure factor 4 TWA: 50 ppm (8 Stunden). MAK TWA: 190 mg/m³ (8 Stunden). MAK Höhepunkt: 200 ppm Höhepunkt: 760 mg/m³ Haut	STEL: 100 ppm 15 minutos STEL: 384 mg/m³ 15 minutos TWA: 50 ppm 8 horas TWA: 192 mg/m³ 8 horas Pele	STEL: 384 mg/m³ 15 minuten TWA: 150 mg/m³ 8 uren	TWA: 25 ppm 8 tunteina TWA: 81 mg/m³ 8 tunteina STEL: 100 ppm 15 minuutteina STEL: 380 mg/m³ 15 minuutteina Iho
Benzene	TWA: 1 ppm 8 ore. TWA: 3.25 mg/m³ 8 ore. Pelle	Haut	STEL: 2.5 ppm 15 minutos TWA: 0.5 ppm 8 horas Pele	huid TWA: 3.25 mg/m³ 8 uren	TWA: 1 ppm 8 tunteina TWA: 3.25 mg/m³ 8 tunteina Iho

Component	Austria	Denmark	Switzerland	Poland	Norway
Ethylbenzene	Haut MAK-KZW: 200 ppm 15 Minuten MAK-KZW: 880 mg/m³ 15 Minuten MAK-TMW: 100 ppm 8 Stunden MAK-TMW: 440 mg/m³ 8 Stunden	TWA: 50 ppm 8 timer TWA: 217 mg/m³ 8 timer Hud	Haut/Peau STEL: 50 ppm 15 Minuten STEL: 220 mg/m³ 15 Minuten TWA: 50 ppm 8 Stunden TWA: 220 mg/m³ 8 Stunden	STEL: 400 mg/m³ 15 minutach TWA: 200 mg/m³ 8 godzinach	TWA: 5 ppm 8 timer TWA: 20 mg/m³ 8 timer STEL: 10 ppm 15 minutter. STEL: 30 mg/m³ 15 minutter. Hud
Xylenes (o-, m-, p-isomers)	Haut MAK-KZW: 100 ppm 15 Minuten MAK-KZW: 442 mg/m³ 15 Minuten MAK-TMW: 50 ppm 8 Stunden MAK-TMW: 221 mg/m³ 8 Stunden	TWA: 25 ppm 8 timer TWA: 109 mg/m³ 8 timer Hud	Haut/Peau STEL: 200 ppm 15 Minuten STEL: 870 mg/m³ 15 Minuten TWA: 100 ppm 8 Stunden TWA: 435 mg/m³ 8 Stunden	TWA: 100 mg/m³ 8 godzinach	TWA: 25 ppm 8 timer TWA: 108 mg/m³ 8 timer STEL: 37.5 ppm 15 minutter. STEL: 135 mg/m³ 15 minutter. Hud
Toluene	Haut MAK-KZW: 100 ppm 15 Minuten MAK-KZW: 380 mg/m³ 15 Minuten MAK-TMW: 50 ppm 8 Stunden MAK-TMW: 190 mg/m³ 8 Stunden	TWA: 25 ppm 8 timer TWA: 94 mg/m³ 8 timer Hud	Haut/Peau STEL: 200 ppm 15 Minuten STEL: 760 mg/m³ 15 Minuten TWA: 50 ppm 8 Stunden TWA: 190 mg/m³ 8 Stunden	STEL: 200 mg/m³ 15 minutach TWA: 100 mg/m³ 8 godzinach	TWA: 25 ppm 8 timer TWA: 94 mg/m³ 8 timer STEL: 37.5 ppm 15 minutter. STEL: 141 mg/m³ 15 minutter. Hud
Benzene	TRK-KZW: 4 ppm 15 Minuten TRK-KZW: 12.8 mg/m³ 15 Minuten Haut TRK-TMW: 1 ppm TRK-TMW: 3.2 mg/m³	TWA: 0.5 ppm 8 timer TWA: 1.6 mg/m³ 8 timer Hud	Haut/Peau TWA: 0.5 ppm 8 Stunden TWA: 1.6 mg/m³ 8 Stunden	TWA: 1.6 mg/m³ 8 godzinach	TWA: 1 ppm 8 timer TWA: 3 mg/m³ 8 timer STEL: 3 ppm 15 minutter. STEL: 6 mg/m³ 15 minutter.

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Ethylbenzene	TWA: 435 mg/m³ STEL : 545 mg/m³ Skin notation	kože TWA-GVI: 100 ppm 8 satima. TWA-GVI: 442 mg/m³ 8 satima. STEL-KGVI: 200 ppm 15 minutama. STEL-KGVI: 884 mg/m³ 15 minutama.	TWA: 100 ppm 8 hr. TWA: 442 mg/m³ 8 hr. STEL: 200 ppm 15 min STEL: 884 mg/m³ 15 min Skin	Skin-potential for cutaneous absorption STEL: 200 ppm STEL: 884 mg/m³ TWA: 100 ppm TWA: 442 mg/m³	TWA: 200 mg/m³ 8 hodinách. Potential for cutaneous absorption Ceiling: 500 mg/m³
Xylenes (o-, m-, p-	TWA: 50 ppm	kože	TWA: 50 ppm 8 hr.	Skin-potential for	TWA: 200 mg/m³ 8

isomers)	TWA: 221.0 mg/m³ STEL : 100 ppm STEL : 442 mg/m³ Skin notation	TWA-GVI: 50 ppm 8 satima. TWA-GVI: 221 mg/m³ 8 satima. STEL-KGVI: 100 ppm 15 minutama. STEL-KGVI: 442 mg/m³ 15 minutama.	TWA: 221 mg/m³ 8 hr. STEL: 100 ppm 15 min STEL: 442 mg/m³ 15 min Skin	cutaneous absorption STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³	hodinách. Potential for cutaneous absorption Ceiling: 400 mg/m³
Toluene	TWA: 50 ppm TWA: 192.0 mg/m³ STEL : 100 ppm STEL : 384.0 mg/m³ Skin notation	kože TWA-GVI: 50 ppm 8 satima. TWA-GVI: 192 mg/m³ 8 satima. STEL-KGVI: 100 ppm 15 minutama. STEL-KGVI: 384 mg/m³ 15 minutama.	TWA: 50 ppm 8 hr. TWA: 192 mg/m³ 8 hr. STEL: 384 mg/m³ 15 min STEL: 100 ppm 15 min Skin	Skin-potential for cutaneous absorption STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 192 mg/m³	TWA: 200 mg/m³ 8 hodinách. Potential for cutaneous absorption Ceiling: 500 mg/m³
Benzene	TWA: 3.25 mg/m³ Skin notation	kože TWA-GVI: 1 ppm 8 satima. TWA-GVI: 3.25 mg/m³ 8 satima.	TWA: 1 ppm 8 hr. TWA: 3 mg/m³ 8 hr. STEL: 3 ppm 15 min STEL: 9 mg/m³ 15 min Skin	Skin-potential for cutaneous absorption TWA: 1 ppm TWA: 3.25 mg/m³	TWA: 3 mg/m³ 8 hodinách. Potential for cutaneous absorption Ceiling: 10 mg/m³

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Ethylbenzene	Nahk TWA: 100 ppm 8 tundides. TWA: 442 mg/m³ 8 tundides. STEL: 200 ppm 15 minutites. STEL: 884 mg/m³ 15 minutites. Ceiling: 0.01 ppm 5 min	Skin notation TWA: 100 ppm 8 hr TWA: 442 mg/m³ 8 hr STEL: 200 ppm 15 min STEL: 884 mg/m³ 15 min	STEL: 125 ppm STEL: 545 mg/m³ TWA: 100 ppm TWA: 435 mg/m³	STEL: 884 mg/m³ 15 percekben. CK TWA: 442 mg/m³ 8 órában. AK lehetséges borön keresztüli felszívódás	STEL: 200 ppm STEL: 884 mg/m³ TWA: 50 ppm 8 klukkustundum. TWA: 200 mg/m³ 8 klukkustundum. Skin notation Ceiling: 100 ppm Ceiling: 400 mg/m³
Xylenes (o-, m-, p-isomers)	Nahk TWA: 50 ppm 8 tundides. TWA: 221 mg/m³ 8 tundides. STEL: 100 ppm 15 minutites. STEL: 442 mg/m³ 15 minutites.	Skin notation TWA: 50 ppm 8 hr pure TWA: 221 mg/m³ 8 hr pure STEL: 100 ppm 15 min pure STEL: 442 mg/m³ 15 min pure	skin - potential for cutaneous absorption STEL: 150 ppm STEL: 650 mg/m³ TWA: 100 ppm TWA: 435 mg/m³	STEL: 442 mg/m³ 15 percekben. CK TWA: 221 mg/m³ 8 órában. AK lehetséges borön keresztüli felszívódás	STEL: 100 ppm STEL: 442 mg/m³ TWA: 25 ppm 8 klukkustundum. TWA: 109 mg/m³ 8 klukkustundum. Skin notation Ceiling: 50 ppm Ceiling: 218 mg/m³
Toluene	Nahk TWA: 50 ppm 8 tundides. TWA: 192 mg/m³ 8 tundides. STEL: 100 ppm 15 minutites. STEL: 384 mg/m³ 15 minutites.	Skin notation TWA: 50 ppm 8 hr TWA: 192 mg/m³ 8 hr STEL: 100 ppm 15 min STEL: 384 mg/m³ 15 min	skin - potential for cutaneous absorption STEL: 100 ppm STEL: 384 mg/m³ TWA: 50 ppm TWA: 192 mg/m³	STEL: 380 mg/m³ 15 percekben. CK TWA: 190 mg/m³ 8 órában. AK lehetséges borön keresztüli felszívódás	STEL: 50 ppm STEL: 188 mg/m³ TWA: 25 ppm 8 klukkustundum. TWA: 94 mg/m³ 8 klukkustundum. Skin notation Ceiling: 50 ppm Ceiling: 188 mg/m³
Benzene	Nahk TWA: 0.5 ppm 8 tundides. TWA: 1.5 mg/m³ 8 tundides. STEL: 3 ppm 15 minutites. STEL: 9 mg/m³ 15 minutites.		skin - potential for cutaneous absorption TWA: 1.0 ppm TWA: 3.19 mg/m³	lehetséges borön keresztüli felszívódás Ceiling: 3 mg/m³ MK	TWA: 0.5 ppm 8 klukkustundum. TWA: 1.6 mg/m³ 8 klukkustundum. Skin notation Ceiling: 1 ppm Ceiling: 3.2 mg/m³

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Ethylbenzene	skin - potential for cutaneous exposure STEL: 200 ppm STEL: 884 mg/m³ TWA: 100 ppm	TWA: 100 ppm IPRD TWA: 442 mg/m³ IPRD Oda STEL: 200 ppm STEL: 884 mg/m³	Possibility of significant uptake through the skin TWA: 100 ppm 8 Stunden TWA: 442 mg/m³ 8	possibility of significant uptake through the skin TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm 15	Skin notation TWA: 100 ppm 8 ore TWA: 442 mg/m³ 8 ore STEL: 200 ppm 15 minute

	TWA: 442 mg/m³		Stunden STEL: 200 ppm 15 Minuten STEL: 884 mg/m³ 15 Minuten	minuti STEL: 884 mg/m³ 15 minuti	STEL: 884 mg/m³ 15 minute
Xylenes (o-, m-, p-isomers)	skin - potential for cutaneous exposure STEL: 100 ppm STEL: 442 mg/m³ TWA: 50 ppm TWA: 221 mg/m³	TWA: 50 ppm IPRD TWA: 200 mg/m³ IPRD Oda STEL: 100 ppm STEL: 450 mg/m³	TWA: 50 ppm 8 Stunden TWA: 221 mg/m³ 8 Stunden STEL: 100 ppm 15 Minuten STEL: 442 mg/m³ 15 Minuten	possibility of significant uptake through the skin TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm 15 minuti STEL: 442 mg/m³ 15 minuti	Skin notation TWA: 50 ppm 8 ore TWA: 221 mg/m³ 8 ore STEL: 100 ppm 15 minute STEL: 442 mg/m³ 15 minute
Toluene	skin - potential for cutaneous exposure STEL: 40 ppm STEL: 150 mg/m³ TWA: 14 ppm TWA: 50 mg/m³	TWA: 50 ppm IPRD TWA: 192 mg/m³ IPRD Oda STEL: 100 ppm STEL: 384 mg/m³	Possibility of significant uptake through the skin TWA: 50 ppm 8 Stunden TWA: 192 mg/m³ 8 Stunden STEL: 100 ppm 15 Minuten STEL: 384 mg/m³ 15 Minuten	possibility of significant uptake through the skin TWA: 50 ppm TWA: 192 mg/m³ STEL: 100 ppm 15 minuti STEL: 384 mg/m³ 15 minuti	Skin notation TWA: 50 ppm 8 ore TWA: 192 mg/m³ 8 ore STEL: 100 ppm 15 minute STEL: 384 mg/m³ 15 minute
Benzene	skin - potential for cutaneous exposure TWA: 1 ppm TWA: 3.25 mg/m³	TWA: 1 ppm IPRD TWA: 3.25 mg/m³ IPRD Oda STEL: 6 ppm STEL: 19 mg/m³	TWA: 1 ppm 8 Stunden TWA: 3.25 mg/m³ 8 Stunden		Skin notation TWA: 1 ppm 8 ore TWA: 3.25 mg/m³ 8 ore

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Ethylbenzene	TWA: 50 mg/m³ STEL: 150 mg/m³ vapor	Ceiling: 884 mg/m³ Potential for cutaneous absorption TWA: 100 ppm TWA: 442 mg/m³	TWA: 100 ppm 8 urah TWA: 442 mg/m³ 8 urah Koža STEL: 200 ppm 15 minutah STEL: 884 mg/m³ 15 minutah	STV: 100 ppm 15 minuter STV: 450 mg/m³ 15 minuter LLV: 50 ppm 8 timmar. LLV: 200 mg/m³ 8 timmar.	Deri TWA: 100 ppm 8 saat TWA: 442 mg/m³ 8 saat STEL: 200 ppm 15 dakika STEL: 884 mg/m³ 15 dakika
Xylenes (o-, m-, p-isomers)	TWA: 50 mg/m³ 2-,3- and 4- isomers STEL: 150 mg/m³ vapor	Ceiling: 442 mg/m³ Potential for cutaneous absorption TWA: 50 ppm TWA: 221 mg/m³	TWA: 50 ppm 8 urah TWA: 221 mg/m³ 8 urah Koža STEL: 100 ppm 15 minutah STEL: 442 mg/m³ 15 minutah	STV: 100 ppm 15 minuter STV: 442 mg/m³ 15 minuter LLV: 50 ppm 8 timmar. LLV: 221 mg/m³ 8 timmar. Hud	Deri TWA: 50 ppm 8 saat TWA: 221 mg/m³ 8 saat STEL: 100 ppm 15 dakika STEL: 442 mg/m³ 15 dakika
Toluene	TWA: 50 mg/m³ STEL: 150 mg/m³ vapor	Ceiling: 384 mg/m³ Potential for cutaneous absorption TWA: 50 ppm TWA: 192 mg/m³	TWA: 50 ppm 8 urah TWA: 192 mg/m³ 8 urah Koža STEL: 200 ppm 15 minutah STEL: 384 mg/m³ 15 minutah	STV: 100 ppm 15 minuter STV: 384 mg/m³ 15 minuter LLV: 50 ppm 8 timmar. LLV: 192 mg/m³ 8 timmar. Hud	Deri TWA: 50 ppm 8 saat TWA: 192 mg/m³ 8 saat STEL: 100 ppm 15 dakika STEL: 384 mg/m³ 15 dakika
Benzene	TWA: 5 mg/m³ Skin notation STEL: 15 mg/m³ vapor	TWA: 1.0 ppm 8 hodinách TWA: 3.25 mg/m³ 8 hodinách Potential for cutaneous absorption STEL: 5.0 ppm 15 minútach STEL: 16.25 mg/m³ 15 minútach	TWA: 1 ppm 8 urah TWA: 3.25 mg/m³ 8 urah Koža STEL: 4 ppm 15 minutah STEL: 13 mg/m³ 15 minutah	STV: 3 ppm 15 minuter STV: 9 mg/m³ 15 minuter LLV: 0.5 ppm 8 timmar. LLV: 1.5 mg/m³ 8 timmar. Hud	

Biological limit values

Component	European Union	United Kingdom	France	Spain	Germany
Ethylbenzene			Mandelic acid: 1500	Mandelic acid plus	Mandelic acid plus

			mg/g creatinine urine end of shift at end of workweek	Phenylglyoxylic acid: 700 mg/g Creatinine urine end of workweek	Phenylglyoxylic acid: 300 mg/g urine (end of shift)
Xylenes (o-, m-, p-isomers)		Methyl hippuric acid: 650 mmol/mol creatinine urine Post shift	Methylhippuric acid: 1500 mg/g creatinine urine end of shift	Methylhippuric acids: 1 g/g Creatinine urine end of shift	Xylene: 1.5 mg/L whole blood (end of shift all isomers) Methylhippuric(tolur-)acid: 2000 mg/L urine (end of shift all isomers)
Toluene			Toluene: 1 mg/L blood end of shift Hippuric acid: 2500 mg/g creatinine urine end of shift	o-Cresol: 0.5 mg/L urine end of shift Hippuric acid: 1.6 g/g Creatinine urine end of shift Toluene: 0.05 mg/L blood start of last shift of workweek	Toluene: 600 µg/L whole blood (end of shift) o-Cresol: 1.5 mg/L urine (end of several shifts after hydrolysis; for long-term exposures)
Benzene			Muconic acid: 5 mg/L urine end of shift	S-Phenylmercapturic acid: 0.045 mg/g urine end of exposure or end of shift trans,trans-Muconic acid: 2 mg/L urine end of exposure or end of shift Total benzene: 5 µg/L blood end of exposure or end of shift	

Component	Italy	Finland	Denmark	Bulgaria	Romania
Ethylbenzene		Mandelic acid: 5.2 mmol/L urine end of shift at end of workweek.		Mandelic acid and Phenylglyoxylic acid - together: 2000 mg/g Creatinine urine at the end of exposure or end of shift Possible significant absorption through the skin	Mandelic acid: 1.5 g/g Creatinine urine end of work week
Xylenes (o-, m-, p-isomers)		Methylhippuric acid: 5.0 mmol/L urine end of shift.			Methylhippuric acid: 3 g/L urine end of shift
Toluene		Toluene concentrated: 500 nmol/L blood prior to shift.		Hippuric acid: 1.6 mmol/mmol Creatinine urine at the end of exposure or end of shift	Hippuric acid: 2 g/L urine end of shift o-Cresol: 3 mg/L urine end of shift
Benzene				Trans, trans-Muconic acid: 2.0 mg/L urine at the end of exposure or end of shift Possible significant absorption through the skin S-Phenyl Mercapturic acid: 0.045 mg/g Creatinine urine at the end of exposure or end of shift Possible significant absorption through the skin	S-Phenylmercapturic acid: 25 µg/g Creatinine urine end of shift total Phenols: 50 mg/L urine end of shift

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Ethylbenzene			2 and 4-Ethylphenol: 12 mg/L urine end of exposure or work shift also after all work shifts for long-term exposure Mandelic acid and phenylglycolic acid: 1600 mg/L urine end of exposure or work shift		

			also after all work shifts for long-term exposure		
Xylenes (o-, m-, p-isomers)			Xylene: 1.5 mg/L blood end of exposure or work shift all isomers Methylhippuric acid: 2000 mg/L urine end of exposure or work shift		
Toluene		Hippuric acid: 1.6 g/g Creatinine urine end of shift Toluene: 0.05 mg/l blood end of shift	Toluene: 600 µg/L blood end of exposure or work shift o-Cresol: 1.5 mg/L urine after all work shifts for long-term exposure o-Cresol: 1.5 mg/L urine end of exposure or work shift Hippuric acid: 1600 mg/g creatinine end of exposure or work shift		
Benzene		Phenol: 25 µg/g Creatinine urine end of shift			

Monitoring methods
BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL) No information available

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				
Inhalation				

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures
Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Safety glasses with side-shields (European standard - EN 166)
Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers recommendations	-	EN 374	(minimum requirement)

Skin and body protection Long sleeved clothing Apron Impervious gloves

Inspect gloves before use.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)
Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

	appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use	In case of insufficient ventilation wear suitable respiratory equipment
Small scale/Laboratory use	Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. When RPE is used a face piece Fit Test should be conducted
Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.
Environmental exposure controls	No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear, Colorless	
Physical State	Liquid	
Odor	aromatic	
Odor Threshold	No data available	
pH	No data available	
Melting Point/Range	-47.2 °C / -53 °F	
Softening Point	No data available	
Boiling Point/Range	136.7 - 143.3 °C / 278 - 290 °F	
Flash Point	27.7 °C / 82 °F	**Method -** No information available
Evaporation Rate	No information available	
Flammability (solid,gas)	No information available	
Explosion Limits	**Lower** 1.1 vol % **Upper** 7.0 vol %	
Vapor Pressure	9 mmHg @ 25 °C	
Vapor Density	3.66 (Air = 1.0)	(Air = 1.0)
Specific Gravity / Density	No data available 0.87	
Bulk Density	No data available	
Water Solubility	No information available	
Solubility in other solvents	No information available	

Partition Coefficient (n-octanol/water)

Component	**log Pow**
Ethylbenzene	3.118
Xylenes (o-, m-, p- isomers)	3.15
Toluene	2.65
Benzene	1.83

Autoignition Temperature	527 °C / 980.6 °F
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

9.2. Other information

Molecular Formula	C8H10
Molecular Weight	106.17

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions No information available.

10.4. Conditions to avoid

Incompatible products. Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrocarbons. Aldehydes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information No acute toxicity information is available for this product

(a) acute toxicity;
Oral No data available
Dermal No data available
Inhalation No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylbenzene	3500 mg/kg (Rat)	15400 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Xylenes (o-, m-, p- isomers)	3500 mg/kg (Rat)	4350 mg/kg (Rabbit) 1700 mg/kg (Rabbit)	29.08 mg/L [MOE Risk Assessment Vol.1, 2002]
Toluene	> 5000 mg/kg (Rat)	12000 mg/kg (Rabbit)	26700 ppm (Rat) 1 h
Benzene	810 mg/kg (Rat) 1800 mg/kg (Rat)	8200 mg/kg (Rabbit)	44.66 mg/L (Rat) 4 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;
Respiratory No data available
Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	EU	UK	Germany	IARC
Ethylbenzene				Group 2B
Benzene	Carc Cat. 1A		Cat. 1	Group 1

(g) reproductive toxicity; No data available
Reproductive Effects Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects Developmental effects have occurred in experimental animals.
Teratogenicity Teratogenic effects have occurred in experimental animals.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs Eyes, Skin, Central nervous system (CNS), Liver, Kidney, Respiratory system.

(j) aspiration hazard; No data available

Other Adverse Effects Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information

Symptoms / effects,both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects Do not empty into drains.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ethylbenzene	9.6 mg/L LC50 96 h 9.1 - 15.6 mg/L LC50 96 h 32 mg/L LC50 96 h 7.55 - 11 mg/L LC50 96 h 4.2 mg/L LC50 96 h 11.0 - 18.0 mg/L LC50 96 h	1.8 - 2.4 mg/L EC50 48 h	2.6 - 11.3 mg/L EC50 72 h 438 mg/L EC50 > 96 h 4.6 mg/L EC50 = 72 h 1.7 - 7.6 mg/L EC50 96 h	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h
Xylenes (o-, m-, p- isomers)	30.26 - 40.75 mg/L LC50 96 h 780 mg/L LC50 96 h 23.53 - 29.97 mg/L LC50 96 h 7.711 - 9.591 mg/L LC50 96 h 19 mg/L LC50 96 h 13.1 - 16.5 mg/L LC50 96 h 13.5 - 17.3 mg/L LC50 96 h 2.661 - 4.093 mg/L LC50 96 h 13.4 mg/L LC50 96 h	0.6 mg/L LC50 = 48 h 3.82 mg/L EC50 = 48 h		EC50 = 0.0084 mg/L 24 h
Toluene	50-70 mg/L LC50 96 h 5-7 mg/L LC50 96 h 15-19 mg/L LC50 96 h 28 mg/L LC50 96 h 12 mg/L LC50 96 h	11.5 mg/L EC50 = 48 h 5.46 - 9.83 mg/L EC50 48 h	12.5 mg/L EC50 = 72 h 433 mg/L EC50 > 96 h	EC50 = 19.7 mg/L 30 min
Benzene	70000 - 142000 µg/L LC50 96 h 22330 - 41160 µg/L LC50 96 h 28.6 mg/L LC50 96 h 22.49 mg/L LC50 96 h 5.3 mg/L LC50 96 h 10.7 - 14.7 mg/L LC50 96 h	10 mg/L EC50 = 48 h 8.76 - 15.6 mg/L EC50 48 h	29 mg/L EC50 = 72 h	

12.2. Persistence and degradability No information available

Component	Degradability
Toluene 108-88-3 (0 - 0.5)	86% (20d)

12.3. Bioaccumulative potential No information available

Component	log Pow	Bioconcentration factor (BCF)
Ethylbenzene	3.118	15
Xylenes (o-, m-, p- isomers)	3.15	0.6 - 15
Toluene	2.65	90
Benzene	1.83	3.5 - 4.4

12.4. Mobility in soil .

12.5. Results of PBT and vPvB assessment No data available for assessment.

12.6. Other adverse effects

Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors
Persistent Organic Pollutant	This product does not contain any known or suspected substance
Ozone Depletion Potential	This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number	UN1307
14.2. UN proper shipping name	XYLENES
14.3. Transport hazard class(es)	3
14.4. Packing group	III

ADR

14.1. UN number	UN1307
14.2. UN proper shipping name	XYLENES
14.3. Transport hazard class(es)	3
14.4. Packing group	III

IATA

14.1. UN number	UN1307
14.2. UN proper shipping name	XYLENES
14.3. Transport hazard class(es)	3
14.4. Packing group	III

14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories Australia X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Europe TSCA Korea Philippines Japan

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Ethylbenzene	202-849-4	-		X	X	-	X	X	X	X	X
Xylenes (o-, m-, p- isomers)	215-535-7	-		X	X	-	X	X	X	X	X

Toluene	203-625-9	-		X	X	-	X	X	X	X	X
Benzene	200-753-7	-		X	X	-	X	X	X	X	X

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Toluene		Use restricted. See item 48. (see *http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT* for restriction details)	
Benzene		Use restricted. See item 5. (see *http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT* for restriction details) Use restricted. See item 28. (see *http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT* for restriction details) Use restricted. See item 29. (see *http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT* for restriction details)	

National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Ethylbenzene	WGK 1	
Xylenes (o-, m-, p- isomers)	WGK 2	
Toluene	WGK 2	
Benzene	WGK 3	Krebserzeugende Stoffe - Class III : 1 mg/m³ (Massenkonzentration)

Component	France - INRS (Tables of occupational diseases)
Ethylbenzene	Tableaux des maladies professionnelles (TMP) - RG 84
Xylenes (o-, m-, p- isomers)	Tableaux des maladies professionnelles (TMP) - RG 4bis,RG 84
Toluene	Tableaux des maladies professionnelles (TMP) - RG 4bis,RG 84
Benzene	Tableaux des maladies professionnelles (TMP) - RG 4,RG 4bis,RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.
Take note of Dir 94/33/EC on the protection of young people at work
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R10 - Flammable
R11 - Highly flammable
R20 - Harmful by inhalation
R38 - Irritating to skin
R45 - May cause cancer
R46 - May cause heritable genetic damage
R63 - Possible risk of harm to the unborn child
R65 - Harmful: may cause lung damage if swallowed
R67 - Vapors may cause drowsiness and dizziness

R20/21 - Harmful by inhalation and in contact with skin
R36/38 - Irritating to eyes and skin
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/23/24/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

Full text of H-Statements referred to under sections 2 and 3
H226 - Flammable liquid and vapor
H225 - Highly flammable liquid and vapor
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure

Legend

CAS - Chemical Abstracts Service
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japanese Existing and New Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit
ACGIH - American Conference of Governmental Industrial Hygienists
DNEL - Derived No Effect Level
RPE - Respiratory Protective Equipment
LC50 - Lethal Concentration 50%
NOEC - No Observed Effect Concentration
PBT - Persistent, Bioaccumulative, Toxic
TWA - Time Weighted Average
IARC - International Agency for Research on Cancer
PNEC - Predicted No Effect Concentration
LD50 - Lethal Dose 50%
EC50 - Effective Concentration 50%
POW - Partition coefficient Octanol:Water
vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code
OECD - Organisation for Economic Co-operation and Development
BCF - Bioconcentration factor
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association
MARPOL - International Convention for the Prevention of Pollution from Ships
ATE - Acute Toxicity Estimate
VOC - Volatile Organic Compounds

Key literature references and sources for data
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice
Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Creation Date	13-Feb-2015
Revision Date	21-Feb-2014
Revision Summary	Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

Version 5.8
Revision Date 10/12/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name	:	Zinc
Product Number	:	96454
Brand	:	Sigma-Aldrich
CAS-No.	:	7440-66-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	:	Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone	:	+1 800-325-5832
Fax	:	+1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #	:	(314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Combustible dust,
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word	Warning
Hazard statement(s)	
	May form combustible dust concentrations in air
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Formula : Zn
Molecular weight : 65.39 g/mol

Hazardous components

Component		Classification	Concentration
Zinc powder (stabilized)			
CAS-No. EC-No. Index-No.	7440-66-6 231-175-3 030-001-01-9	Aquatic Acute 1; Aquatic Chronic 1; H410	<= 100 %
Zinc oxide			
CAS-No. EC-No. Index-No.	1314-13-2 215-222-5 030-013-00-7	Aquatic Acute 1; Aquatic Chronic 1; H410	>= 5 - < 10 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Special powder against metal fire Dry sandUse water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
Water

5.2 Special hazards arising from the substance or mixture

Zinc/zinc oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.
Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Zinc oxide	1314-13-2	TWA	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	metal fume fever		
		STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		metal fume fever		

		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		C	15.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: grey
b)	Odour	odourless
c)	Odour Threshold	No data available
d)	pH	Not applicable
e)	Melting point/freezing point	Melting point/range: 420 °C (788 °F) - lit.
f)	Initial boiling point and boiling range	907 °C (1,665 °F) - lit.
g)	Flash point	Not applicable
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	Not applicable
l)	Vapour density	No data available
m)	Relative density	7.133 g/mL at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n-octanol/water	Not applicable
p)	Auto-ignition temperature	does not ignite
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	During processing, dust may form explosive mixture in air.
t)	Oxidizing properties	No data available

9.2 Other safety information

Bulk density	1.8 - 3.2 kg/m3

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Dust may form explosive mixture in air.

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, Acids and bases

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available (Zinc powder (stabilized))

Inhalation: No data available (Zinc powder (stabilized))

Dermal: No data available (Zinc powder (stabilized))

No data available (Zinc powder (stabilized))

Skin corrosion/irritation
No data available (Zinc powder (stabilized))

Serious eye damage/eye irritation
No data available (Zinc powder (stabilized))

Respiratory or skin sensitisation
Did not cause sensitisation on laboratory animals. (Zinc powder (stabilized))

Germ cell mutagenicity
No data available (Zinc powder (stabilized))

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available (Zinc powder (stabilized))

No data available (Zinc powder (stabilized))

Specific target organ toxicity - single exposure
No data available (Zinc powder (stabilized))

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available (Zinc powder (stabilized))

Additional Information
RTECS: ZG8600000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Effects due to ingestion may include:, chills, dry throat, sweet taste, Fever, Cough, Nausea, Vomiting, Weakness, Contact with eyes or skin may cause:, Irritation (Zinc powder (stabilized))

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	LC50 - Cyprinus carpio (Carp) - 450 µg/l - 96 h (Zinc powder (stabilized))
Toxicity to daphnia and other aquatic invertebrates	LC50 - Daphnia magna (Water flea) - 0.068 mg/l - 48 h (Zinc powder (stabilized))
	mortality NOEC - Daphnia (water flea) - 0.101 - 0.14 mg/l - 7 d (Zinc powder (stabilized))

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation	Algae - 7 d at 16 °C - 5 µg/l (Zinc powder (stabilized))
	Bioconcentration factor (BCF): 466

12.4 Mobility in soil

No data available (Zinc powder (stabilized))

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Zinc powder (stabilized))
Reportable Quantity (RQ): 1020 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc powder (stabilized))
Marine pollutant:yes

IATA
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Zinc powder (stabilized))

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Zinc oxide	1314-13-2	2007-03-01
Zinc powder (stabilized)	7440-66-6	1993-04-24

SARA 311/312 Hazards
No SARA Hazards

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Zinc powder (stabilized)	7440-66-6	1993-04-24
Zinc oxide	1314-13-2	2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Zinc powder (stabilized)	7440-66-6	1993-04-24
Zinc oxide	1314-13-2	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Zinc powder (stabilized)	7440-66-6	1993-04-24
Zinc oxide	1314-13-2	2007-03-01

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

	May form combustible dust concentrations in air
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.8 Revision Date: 10/12/2015 Print Date: 05/01/2016

ATTACHMENT K

Langan Guidelines

ATTACHMENT K

Langan Guidelines

GENERAL

- No smoking, eating, or drinking in this work zone.
- Upon leaving the work zone, personnel will thoroughly wash their hands and face.
- Minimize contact with contaminated materials through proper planning of work areas and decontamination areas, and by following proper procedures. Do not place equipment on the ground. Do not sit on contaminated materials.
- No open flames in the work zone.
- Only properly trained and equipped personnel are permitted to work in potentially contaminated areas.
- Always use the appropriate level of personal protective equipment (PPE).
- Maintain close contact with your buddy in the work zone
- Contaminated material will be contained in the Exclusion Zone (EZ).
- Report any unusual conditions.
- Work areas will be kept clear and uncluttered. Debris and other slip, trip, and fall hazards will be removed as frequently as possible.
- The number of personnel and equipment in the work zone will be kept to an essential minimum.
- Be alert to the symptoms of fatigue and heat/cold stress, and their effects on the normal caution and judgment of personnel.
- Conflicting situations which may arise concerning safety requirements and working conditions must be addressed and resolved quickly by the site HSO.

TOOLS AND HEAVY EQUIPMENT

- Do not, under any circumstances, enter or ride in or on any backhoe bucket, materials hoist, or any other device not specifically designed to carrying passengers.
- Loose-fitting clothing or loose long hair is prohibited around moving machinery.
- Ensure that heavy equipment operators and all other personnel in the work zone are using the same hand signals to communicate.
- Drilling/excavating within 10 feet in any direction of overhead power lines is prohibited.
- The locations of all underground utilities must be identified and marked out prior to initiating any subsurface activities.
- Check to insure that the equipment operator has lowered all blades and buckets to the ground before shutting off the vehicle.
- If the equipment has an emergency stop device, have the operator show all personnel its location and how to activate it.
- Help the operator ensure adequate clearances when the equipment must negotiate in tight quarters; serve as a signalman to direct backing as necessary.
- Ensure that all heavy equipment that is used in the Exclusion Zone is kept in that zone until the job is done, and that such equipment is completely decontaminated before moving it into the clean area of the work zone.
- Samplers must not reach into or get near rotating equipment such as the drill rig. If personnel must work near any tools that could rotate, the equipment operator must completely shut down the rig prior to initiating such work. It may be necessary to use a remote sampling device.

APPENDIX B

QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN

for

130 SAINT FELIX STREET SITE
BROOKLYN, NEW YORK
NYSDEC BCP No. C224306

Prepared For:

130 Saint Felix Street LLC
c/o Gotham Organization, LLC
432 Park Avenue South, 2nd Floor
New York, New York 10016

Prepared By:

Langan Engineering, Environmental, Surveying,
Landscape Architecture and Geology, D.P.C.
300 Kimball Drive
Parsippany, New Jersey 07054

5 August 2020
Revised 14 December 2020
100842301

LANGAN

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1.0 PROJECT DESCRIPTION

1.1 Introduction

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) has prepared this Quality Assurance Project Plan (QAPP) on behalf of 130 Saint Felix Street LLC (the Volunteer) for the property at 130 Saint Felix Street located in Brooklyn, New York (Tax Block 2111, Lot 40) in the Fort Greene neighborhood of Brooklyn, New York (the Site). A Site Location Map is included as Figure 1.

This QAPP specifies analytical methods to be used to ensure that data collected during the Remedial Investigation (RI) are precise, accurate, representative, comparable, complete, and meet the sensitivity requirements of the project.

1.2 Project Objectives

The RI Work Plan (RIWP) has been developed to meet the investigation requirements of the NYSDEC Brownfield Cleanup Program in accordance with the requirements of Environmental Conservation Law (ECL) Article 27-1415(2). Soil, groundwater, and soil vapor samples will be collected to investigate potential impacts related to historical site operations and the potential historical presence of underground storage tanks (USTs), historical adjacent and surrounding site operations, and historic fill identified in the Phase I Environmental Assessment and the Subsurface Investigation Report prepared by Langan in May and June 2015, respectively, and to assess subsurface conditions across the Site. This QAPP addresses sampling and analytical methods that will be necessary in support of RI activities. These objectives have been established in order to meet standards that will protect public health and the environment for the site.

1.3 Scope of Work

The specific scope of work covered in this QAPP includes any sampling that will occur during implementation of the RIWP. The RIWP requires the collection of soil, groundwater, and soil vapor samples to investigate potential impacts related to historical site operations and the potential historical presence of USTs, historical adjacent and surrounding site operations, and historic fill, and to assess subsurface conditions across the Site.

2.0 DATA QUALITY OBJECTIVES AND PROCESS

Data Quality Objectives (DQOs) are qualitative and quantitative statements to help ensure that data of known and appropriate quality are obtained during the project. The overall objectives are:

- To evaluate the quality of soil through the collection of soil samples;
- To evaluate the quality of groundwater through the collection of groundwater samples; and,
- To evaluate the quality of soil vapor through the collection of soil vapor samples.

DQOs for sampling activities are determined by evaluating five factors:

- Data needs and uses: The types of data required and how the data will be used after it is obtained.
- Parameters of Interest: The types of chemical or physical parameters required for the intended use.
- Level of Concern: Levels of constituents, which may require remedial actions or further investigations.
- Required Analytical Level: The level of data quality, data precision, and quality assurance/quality control (QA/QC) documentation required for chemical analysis.
- Required Detection Limits: The detection limits necessary based on the above information.

The quality assurance and quality control objectives for all measurement data include:

- Precision – an expression of the reproducibility of measurements of the same parameter under a given set of conditions. Field sampling precision will be determined by analyzing coded duplicate samples and analytical precision will be determined by analyzing internal QC duplicates and/or matrix spike duplicates.
- Accuracy – a measure of the degree of agreement of a measured value with the true or expected value of the quantity of concern. For soil samples, accuracy will be determined through the assessment of the analytical results of field blanks and trip blanks for each sample set. Analytical accuracy will be

assessed by examining the percent recoveries of surrogate compounds that are added to each sample (organic analyses only), internal standards, laboratory method blanks, instrument calibration, and the percent recoveries of matrix spike compounds added to selected samples and laboratory blanks.

- Representativeness – expresses the degree to which sample data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is dependent upon the adequate design of the sampling program and will be satisfied by ensuring that the scope of work is followed and that specified sampling and analysis techniques are used. Representativeness in the laboratory is ensured by compliance to nationally-recognized analytical methods, meeting sample holding times, and maintaining sample integrity while the samples are in the laboratory's possession. This is accomplished by following all applicable methods, laboratory-issued standard operating procedures (SOPs), the laboratory's Quality Assurance Manual, and this QAPP. The laboratory is required to be properly certified and accredited.
- Completeness – the percentage of measurements made which are judged to be valid. Completeness will be assessed through data validation. The QC objective for completeness is generation of valid data for at least 90 percent of the analyses requested.
- Comparability – expresses the degree of confidence with which one data set can be compared to another. The comparability of all data collected for this project will be ensured using several procedures, including standard methods for sampling and analysis as documented in the QAPP, using standard reporting units and reporting formats, and data validation.
- Sensitivity – the ability of the instrument or method to detect target analytes at the levels of interest. The project manager will select, with input from the laboratory and QA personnel, sampling and analytical procedures that achieve the required levels of detection.

3.0 PROJECT ORGANIZATION AND RESPONSIBILITY

Implementation of the RIWP will be overseen by Langan for 130 Saint Felix Street LLC. The environmental consultant will also arrange data analysis and reporting tasks. The analytical services will be performed by an Environmental Laboratory Approval Program (ELAP)-certified laboratory. Data validation services will be performed by approved data validation contractor(s).

For the required sampling as stated in the RIWP, sampling will be conducted by Langan, the analytical services will be performed by Alpha Analytical, Inc. of Mansfield, MA. (New York State Department of Health [NYSDOH] ELAP certification number 11148 [Westboro Laboratory] and 11627 [Mansfield Laboratory]). Data validation services will be performed by Emily Strake; résumé attached (Attachment A).

Key contacts for this project are as follows:

130 Saint Felix LLC	Bryan Kelly Telephone: (212) 716-2502
Langan Project Manager:	Christopher McMahon Telephone: (973) 560-4900
Langan Quality Assurance Officer (QAO):	Heather Nunn Telephone: (215) 491-6569
Langan Remedial Engineer:	Jessica Friscia Telephone: (973) 560-4488
Program Quality Assurance Monitor:	Dana Monz Telephone: (212) 479-5499 x5616
Data Validator:	Emily Strake Telephone: (215) 491-6526
Laboratory Representative:	Alpha Analytical, Inc. Ben Rao Telephone: (201) 847-9100

4.0 QUALITY ASSURANCE OBJECTIVES FOR COLLECTION OF DATA

The overall quality assurance objective is to develop and implement procedures for sampling, laboratory analysis, field measurements, and reporting that will provide data of sufficient quality to evaluate soil impacts at the site. The sample set, chemical analysis results, and interpretations must be based on data that meet or exceed quality assurance objectives established for the site. Quality assurance objectives are usually expressed in terms of accuracy or bias, sensitivity, completeness, representativeness, comparability, and sensitivity of analysis. Variances from the quality assurance objectives at any stage of the investigation will result in the implementation of appropriate corrective measures and an assessment of the impact of corrective measures on the usability of the data.

Precision

Precision is a measure of the degree to which two or more measurements are in agreement. Field precision is assessed through the collection and measurement of field duplicates. Laboratory precision and sample heterogeneity also contribute to the uncertainty of field duplicate measurements. This uncertainty is taken into account during the data assessment process. For field duplicates, results less than 2x the reporting limit (RL) meet the precision criteria if the absolute difference is less than ±2X the RL. For results greater than 2X the RL, the acceptance criteria is a relative percent difference (RPD) of ≤50% (soil), and <30% (groundwater). RLs and method detection limits (MDL) are provided in Attachment B.

Accuracy

Accuracy is the measurement of the reproducibility of the sampling and analytical methodology. It should be noted that precise data may not be accurate data. For the purpose of this QAPP, bias is defined as the constant or systematic distortion of a measurement process, which manifests itself as a persistent positive or negative deviation from the known or true value. This may be due to (but not limited to) improper sample collection, sample matrix interferences, poorly calibrated analytical or sampling equipment, or limitations or errors in analytical methods and techniques.

Accuracy in the field is assessed through the use of field blanks and through compliance to all sample handling, preservation, and holding time requirements. All field blanks should be non-detect when analyzed by the laboratory. Any contaminant detected in an associated field blank was evaluated against laboratory blanks (preparation or method) and evaluated against field samples collected on the same day to determine potential for bias.

Laboratory accuracy is assessed by evaluating the percent recoveries of MS/MSD samples, LCS/LCSDs, surrogate compound recoveries, internal standard responses and the results of method preparation blanks. MS/MSD, LCS/LCSD, internal standard responses and surrogate percent recoveries were compared to either method-specific control limits or laboratory-derived control limits. Sample volume permitting, samples displaying outliers should be reanalyzed. All associated method blanks should be non-detect when analyzed by the laboratory.

Completeness

Laboratory completeness is the ratio of total number of samples analyzed and verified as acceptable compared to the number of samples submitted to the fixed-base laboratory for analysis, expressed as a percent. Three measures of completeness are defined:

- Sampling completeness, defined as the number of valid samples collected relative to the number of samples planned for collection;
- Analytical completeness, defined as the number of valid sample measurements relative to the number of valid samples collected; and
- Overall completeness, defined as the number of valid sample measurements relative to the number of samples planned for collection.

Soil and groundwater data will meet a 90% completeness criterion. If the criterion is not met, sample results will be evaluated for trends in rejected and unusable data. The effect of unusable data required for a determination of compliance will also be evaluated.

Representativeness

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition within a defined spatial and/or temporal boundary. Representativeness is dependent upon the adequate design of the sampling program and was satisfied by ensuring that the scope of work is followed and that specified sampling and analysis techniques are used. This is performed by following applicable standard operating procedures (SOPs) and this QAPP. All field technicians will be given copies of appropriate documents prior to sampling events and will be required to read, understand, and follow each document as it pertains to the tasks at hand.

Representativeness in the laboratory is ensured by compliance to nationally-recognized analytical methods, meeting sample holding times, and maintaining sample integrity while the samples are in the laboratory's possession. This is performed by following all applicable EPA and standard methods, laboratory-issued SOPs, the laboratory's Quality Assurance Manual, and this QAPP. The laboratory is required to be properly certified and accredited.

Comparability

Comparability is an expression of the confidence with which one data set can be compared to another. Comparability is dependent upon the proper design of the sampling program and was satisfied by ensuring that the sampling plan is followed and that

sampling is performed according to the SOPs or other project-specific procedures. Analytical data were comparable when similar sampling and analytical methods are used as documented in the QAPP. Comparability was controlled by requiring the use of specific nationally-recognized analytical methods and requiring consistent method performance criteria. Comparability is also dependent on similar quality assurance objectives. Previously collected data were evaluated to determine whether they may be combined with contemporary data sets.

Sensitivity

Sensitivity is the ability of the instrument or method to detect target analytes at the levels of interest (e.g., at the NJDEP SRS). The Project Manager will select, with input from the laboratory and QA personnel, sampling and analytical procedures that achieve the required levels of detection and QC acceptance limits that meet established performance criteria. Concurrently, the Project Manager will select the level of data assessment to ensure that only data meeting the project DQOs are used in decision-making.

Field equipment will be used that can achieve the required levels of detection for analytical measurements in the field. In addition, the field sampling staff will collect and submit full volumes of samples as required by the laboratory for analysis, whenever possible. Full volume aliquots will help ensure achievement of the required limits of detection and allow for reanalysis if necessary. The concentration of the lowest level check standard in a multi-point calibration curve will represent the reporting limit.

Analytical methods and quality assurance parameters associated with the sampling program are presented in Attachment C. The frequency of associated field blanks and duplicate samples will be based on the recommendations listed in DER-10 and as described in Section 5.3.2.

5.0 SAMPLE COLLECTION AND FIELD DATA ACQUISITION PROCEDURES

Soil sampling will be conducted in accordance with the established NYSDEC protocols contained in DER-10/Technical Guidance for Site Investigation and Remediation (May 2010). The following sections describe procedures to be followed for specific tasks.

5.1 Field Documentation Procedures

Field documentation procedures will include summarizing field data in field books and proper sample labeling. These procedures are described in the following sections.

5.1.1 Field Data and Notes

Field notebooks contain the documentary evidence regarding procedures conducted by field personnel. Hard cover, bound field notebooks will be used because of their compact size, durability and secure page binding. The pages of the notebook will not be removed.

Entries were made in waterproof, permanent blue or black ink. No erasures will be allowed. Incorrect entries will be crossed out with a single strike mark and the change initialed and dated by the team member making the change.

Each entry will be dated. Entries will be legible and contain accurate and complete documentation of the individual or sampling team's activities or observations made. The level of detail will be sufficient to explain and reconstruct the activity conducted. Each entry will be signed by the person(s) making the entry.

The following types of information will be provided for each sampling task, as appropriate:

- Project name and number;
- Reasons for being on-site or taking the sample;
- Date and time of activity;
- Sample identification numbers;
- Geographical location of sampling points with references to the site, other facilities or a map coordinate system. Sketches were made in the field logbook when appropriate;
- Physical location of sampling locations such as depth below ground surface;
- Description of the method of sampling including procedures followed, equipment used and any departure from the specified procedures;
- Description of the sample including physical characteristics, odor, etc.;
- Readings obtained from health and safety equipment;

- Weather conditions at the time of sampling and previous meteorological events that may affect the representative nature of a sample;
- Photographic information including a brief description of what was photographed, the date and time, the compass direction of the picture and the number of the picture on the camera;
- Other pertinent observations such as the presence of other persons on the site, actions by others that may affect performance of site tasks, etc.; and,
- Names of sampling personnel and signature of persons making entries.

Field records will also be collected on field data sheets including boring logs, which will be used for geologic and drilling data during soil boring activities. Field data sheets will include the project-specific number and stored in the field project files when not in use. At the completion of the field activities, the field data sheets will be maintained in the central project file.

5.1.2 Sample Labeling

Each sample collected will be assigned a unique identification number and placed in an appropriate sample container. Each sample container will have a sample label affixed to the outside with the date and time of sample collection and project name. In addition, the label will contain the sample identification number, analysis required and chemical preservatives added, if any. All documentation will be completed in waterproof ink. Sample nomenclature procedures are included in Attachment D.

5.2 Equipment Calibration and Preventative Maintenance

A photoionization detector (PID) will be used during the sampling activities to evaluate work zone action levels and screen soil samples. Field calibration and/or field checking of the PID will be the responsibility of the field team leader and the site HSO, and will be accomplished by following the procedures outlined in the operating manual for the instrument. At a minimum, field calibration and/or field equipment checking will be performed once daily, prior to use. Field calibration will be documented in the field notebook. Entries made into the logbook regarding the status of field equipment will include the following information:

- Date and time of calibration
- Type of equipment serviced and identification number (such as serial number)
- Reference standard used for calibration
- Calibration and/or maintenance procedure used
- Other pertinent information

Equipment that fails calibration or becomes inoperable during use will be removed from service and segregated to prevent inadvertent utilization. The equipment will be properly tagged to indicate that it is out of calibration. Such equipment will be repaired and recalibrated to the manufacturer's specifications by qualified personnel. Equipment that cannot be repaired will be replaced.

Off-site calibration and maintenance of field instruments will be conducted as appropriate throughout the duration of project activities. All field instrumentation, sampling equipment and accessories will be maintained in accordance with the manufacturer's recommendations and specifications and established field equipment practice. Off-site calibration and maintenance will be performed by qualified personnel. A logbook will be kept to document that established calibration and maintenance procedures have been followed. Documentation will include both scheduled and unscheduled maintenance.

5.3 Sample Collection

5.3.1 Soil Samples

Soil samples will be visually classified and field screened using a PID to assess potential impacts from VOCs and for health and safety monitoring. Soil samples collected for analysis of VOCs will be collected using Terra Core® sampling equipment. For analysis of non-volatile parameters, samples will be homogenized and placed into glass jars. After collection, all sample jars will be capped and securely tightened, and placed in iced coolers and maintained at 4°C ±2°C until they are transferred to the laboratory for analysis, in accordance with the procedures outlined in Section 5.4. Analysis and/or extraction and digestion of collected soil samples will meet the holding times required for each analyte as specified in Attachment C. In addition, analysis of collected soil sample will meet all quality assurance criteria set forth by this QAPP and DER-10.

Soil samples analyzed for per- and poly-fluoro alkyl substances (PFAS) will be collected in 250-milliliter (mL) high-density polyethylene (HDPE) containers provided by the laboratory and analyzed by using USEPA Method 537 modified. USEPA Method 537 was developed for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil certification is not available; however, the method describes acceptable modifications. EPA recommends that modified methods be assessed relative to project goals and data quality objectives.

The reporting limit for PFAS in soil is 0.5 microgram per kilogram (ug/kg). The laboratory standard operating procedures (SOP) for the analysis of PFAS is included in Attachment E. Soil samples analyzed for 1,4-dioxane will be collected in an 8 ounce jar provided by the laboratory and analyzed using USEPA Method 8270. The reporting limit for 1,4-dioxane in soil is 0.1 milligram per kilogram (mg/kg).

5.3.1.1 Sample Field Blanks and Duplicates

Use of dedicated sampling equipment is planned; therefore, collection of field blanks is not anticipated. If the use of reusable sampling equipment is required, proper decontamination procedures will be employed (as further described in Section 5.7) and field blanks will be collected for quality assurance purposes at a rate of one per 20 investigative soil samples. If required, field blanks will be obtained by pouring laboratory-demonstrated analyte-free water on or through a decontaminated sampling device following use and implementation of decontamination protocols. The water will be collected off of the sampling device into a laboratory-provided sample container for analysis. Field blanks will be collected at a rate of one per 20 samples and will be analyzed for the complete list of analytes on the day of sampling. If less than 20 samples are collected during a particular sampling event, one field blank sample will be collected. Equipment blanks will be collected at a rate of one per day when soil

samples are analyzed for PFAS. Trip blanks will be collected at a rate of one per day if soil samples are analyzed for VOCs during that day.

Duplicate soil samples will be collected and analyzed for quality assurance purposes. Duplicate samples will be collected at a frequency of 1 per 20 investigative soil samples and will be submitted to the laboratory as "blind" samples. If less than 20 samples are collected during a particular sampling event, one duplicate sample will be collected.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples (MS/MSD for organics; MS and laboratory duplicate for inorganics) will be taken at a frequency of one pair per 20 field samples. If less than 20 samples are collected during a particular sampling event, one MS/MSD sample will be collected. These samples are used to assess the effect of the sample matrix on the recovery of target compounds or target analytes.

5.3.2 Groundwater Samples

Groundwater samples will be collected into laboratory-supplied containers and will be sealed, labeled, and placed in a cooler containing ice (to maintain a temperature of approximately 4 degrees Celsius) for delivery to a NYSDOH ELAP-certified analytical laboratory. Analysis and/or extraction and digestion of collected groundwater samples will meet the holding times required for each analyte as specified in Attachment C. In addition, analysis of collected groundwater samples will meet all quality assurance criteria set forth by this QAPP and DER-10.

Groundwater samples analyzed for PFAS will be collected in two 250-mL HDPE containers provided by the laboratory and analyzed using USEPA Method 537 modified. USEPA Method 537 was developed for the analysis of finished drinking water from surface water and groundwater sources. Laboratories have modified Method 537 to enable the analysis of groundwater and soil, and to incorporate PFAS analytes not currently addressed by the promulgated method. NYSDOH offers certification for PFOA and PFOS in the drinking water category. Non-potable water and soil

certification is not available; however, the method describes acceptable modifications. EPA recommends that modified methods be assessed relative to project goals and data quality objectives.

The reporting limit for PFAS in groundwater is 2 nanograms per liter (ng/L). The laboratory SOP for the analysis of PFAS is included in Attachment E. Groundwater samples also be analyzed for 1,4-dioxane will be collected in a one-liter amber glass jar and analyzed using USEPA Method 8270 SIM. The reporting limit for 1,4-dioxane in groundwater is 0.35 micrograms per liter (ug/L).

5.3.2.1 Sample Field Blanks and Duplicates

Use of dedicated sampling equipment is planned; therefore, collection of field blanks is not anticipated. If the use of reusable sampling equipment is required, proper decontamination procedures will be employed (as further described in Section 5.7) and field blanks will be collected for quality assurance purposes at a rate of one per 20 investigative groundwater samples. If required, field blanks will be obtained by pouring laboratory-demonstrated analyte-free water on or through a decontaminated sampling device following use and implementation of decontamination protocols. The water will be collected off of the sampling device into a laboratory-provided sample container for analysis. Field blanks will be collected at a rate of one per 20 samples and will be analyzed for the complete list of analytes on the day of sampling. If less than 20 samples are collected during a particular sampling event, one field blank sample will be collected. Equipment blanks will be collected at a rate of one per day when groundwater samples are analyzed for PFAS. Trip blanks will be collected at a rate of one per day if groundwater samples are analyzed for VOCs during that day.

Duplicate groundwater samples will be collected and analyzed for quality assurance purposes. Duplicate samples will be collected at a frequency of 1 per 20 investigative soil samples and will be submitted to the laboratory as "blind" samples. If

less than 20 samples are collected during a particular sampling event, one duplicate sample will be collected.

MS/MSD samples (MS/MSD for organics; MS and laboratory duplicate for inorganics) will be taken at a frequency of one pair per 20 field samples. If less than 20 samples are collected during a particular sampling event, one MS/MSD sample will be collected. These samples are used to assess the effect of the sample matrix on the recovery of target compounds or target analytes.

5.3.3 Soil Vapor Samples

Samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006). Soil vapor implants will be set at a depth of approximately 20- to 20.5-feet below current site grades which corresponds to the depth interval directly below the proposed development excavation depth. Each vapor probe will consist of a new, dedicated stainless steel screen implant connected to polyethylene or Teflon™ tubing extending to the target depth. About 1 foot of clean sand filter pack will be placed around the screen implant, and the remaining annular space will be backfilled to grade with hydrated bentonite. Sampling will occur for the duration of 2 hours.

Samples will be collected in appropriate sized Summa canisters that have been certified clean by the laboratory and samples will be analyzed by using USEPA Method TO-15. Flow rate for both purging and sampling will not exceed 0.2 L/min. 24-hours following soil vapor probe installation, one to three implant volumes shall be purged prior to the collection of any soil-gas samples. A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

As part of the vapor intrusion evaluation, a tracer gas will be used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal.

A container (box, plastic pail, etc.) will serve to keep the tracer gas in contact with the probe during testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer gas prior to sampling. If the tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration. At the conclusion of the sampling round, tracer monitoring will be performed a second time to confirm the integrity of the probe seals.

5.3.3.1 Soil Vapor Sample Duplicates

Duplicate soil vapor samples will be collected and analyzed for quality assurance purposes. Duplicate samples will be collected at a frequency of 1 per 20 investigative soil samples and will be submitted to the laboratory as "blind" samples. If less than 20 samples are collected during a particular sampling event, one duplicate sample will be collected.

5.3.4 PFAS Sampling Procedures

Soil sampling for PFAS analysis will be completed during the remedial action. All 20 soil samples collected during the proposed sampling event will be analyzed for PFAS. Field personnel conducting PFAS sampling will wear clothing and use equipment which does not contain PFAS materials including: powderless nitrile gloves, natural rubber overboots, and synthetic and natural fiber clothing. Clothing advertised as waterproof, water-repellant, and/or dirt and/or stain resistant will not be worn. Personal hygiene products with conditioning agents will be avoided prior to the sampling event. Insect repellent and sunscreen will be avoided. Consumption of food and/or beverages will be strictly prohibited during sampling activities, excluding bottled water for hydration. Ballpoint pens will be used as the sole writing instrument to complete labels and record field notes. Waterproof field books, including "Rite-in-Rain"TM will be avoided.

Only sampling equipment known to be devoid of PFAS containing materials will be used. In general, PFAS-free pumps, tubing, interface probes, soil sampling equipment, and bottleware will be considered prior to the sampling event. It is not anticipated that groundwater samples will be collected for PFAS analysis; however, if required, peristaltic pumps will be utilized as the depth of groundwater is less than 20-feet. If groundwater is determined to be greater than 20 feet deep, bladder pumps (QED

Sample Pro, or equivalent) with a fluoropolymer-free bladder will be used. HDPE will be used for tubing, soil sampling equipment, and bottleware.

Field personnel will follow standard discrete soil sampling and low flow procedures when sampling for PFAS. When possible, disposable and dedicated equipment will be used for each sample location to avoid potential cross contamination and limit errors from inadequate decontamination between samples. Bladder pumps and/or peristaltic pump tubing will not be re-used and therefore decontamination of sampling equipment between samples will not be necessary. Nitrile gloves will be changed between each step during set up and sampling.

If re-use of sampling equipment is required, standard two step decontamination using detergent (Alconox or equivalent) and clean, PFAS-free water will be performed. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Whenever an action occurs outside of procedure, such as the writing of field notes, nitrile gloves will be changed. Sampling equipment will be staged 5-feet away from the boring or open wellhead. Equipment not directly related to sampling will be staged in a separate area away from the boring or open wellhead. When inserting the tubing into the well, the surrounding platform will be avoided as a source of transference. While stabilizing the well, the pump will not be allowed to stop as backflow from the water quality meter can pose a risk to cross contamination. Once stability has been achieved, sampling will occur. PFAS sample bottleware must be made of HDPE and bottleware must be filled to the container neck. Soil sample bottleware must only be filled half-way. The PFAS field and equipment blanks will be collected immediately following completion of PFAS sampling at the frequency discussed above (Sections 5.3.1.1 and 5.3.2.1).

The PFAS compounds to be analyzed includes: perfluorobutanesulfonic acid, perfluorohexanesulfonic acid, perfluoroheptanesulfonic acid, perfluorooctanessulfonic acid, perfluorodecanesulfonic acid, perfluorobutanoic acid, perfluoropentanoic acid, perfluorohexanoic acid, perfluoroheptanoic acid, perfluorooctanoic acid, perfluorononanoic acid, perfluorodecanoic acid, perfluoroundecanoic acid, perfluorododecanoic

acid, perfluorotridecanoic acid, perfluorotetradecanoic acid, 6:2 fluorotelomer sulfonate, 8:2 fluorotelomer sulfonate, perfluroroctanesulfonamide, n-methyl perfluorooctanesulfonamidoacetic acid, and n-ethyl perfluorooctanesulfonamidoacetic acid.

5.4 Sample Containers and Handling

Certified, commercially clean sample containers will be obtained from the analytical laboratory. The laboratory will also prepare and supply the required field blank sample containers and reagent preservatives. Sample containers, including the field blank containers, will be placed in plastic coolers by the laboratory. These coolers will be received by the field sampling team within 24 hours of their preparation in the laboratory. Prior to the commencement of field work, Langan field personnel will fill the plastic coolers with ice in Ziploc® bags (or equivalent) to maintain a temperature of 4°C±2° C.

Samples collected in the field for laboratory analysis will be placed directly into the laboratory-supplied sample containers. Samples will then be placed and stored on-ice in laboratory provided coolers until shipment to the laboratory. The temperature in the coolers containing samples and associated field blanks will be maintained at a temperature of 4°C±2°C while on-site and during sample shipment to the analytical laboratory.

Possession of samples collected in the field will be traceable from the time of collection until they are analyzed by the analytical laboratory or are properly disposed. Chain-of-custody procedures, described in Section 5.9, will be followed to maintain and document sample possession. Samples will be packaged and shipped as described in Section 5.6.

5.5 Sample Preservation

Sample preservation measures will be used in an attempt to prevent sample decomposition by contamination, degradation, biological transformation, chemical interactions and other factors during the time between sample collection and analysis. Preservation will commence at the time of sample collection and will continue until analyses are performed. Should chemical preservation be required, the analytical laboratory will add the preservatives to the appropriate sample containers before shipment to the office or field. Samples will be preserved according to the requirements of the specific analytical method selected, as shown in Attachment C.

5.6 Sample Shipment

5.6.1 Packaging

Sample containers will be placed in plastic coolers. Ice in Ziploc® bags (or equivalent) will be placed around sample containers. Cushioning material will be added around the sample containers if necessary. Chains-of-custody and other paperwork will be placed in a Ziploc® bag (or equivalent) and placed inside the cooler and custody seals will be affixed to one side of the cooler at a minimum. If the samples are being shipped by an express delivery company (third-party courier, e.g., FedEx) then laboratory address labels will be placed on top of the cooler.

5.6.2 Shipping

Standard procedures to be followed for shipping environmental samples to the analytical laboratory are outlined below.

- All environmental samples will be transported to the laboratory from the site or Langan office by a laboratory provided courier under the chain-of-custody protocols described in Section 5.9. A third-party courier may be used if necessary.
- Prior notice will be provided to the laboratory regarding when to expect shipped samples. If the number, type or date of shipment changes due to site constraints or program changes, the laboratory will be informed.

5.7 Decontamination Procedures

Though not anticipated, decontamination procedures will be used if non-dedicated sampling equipment is utilized during the RI. Decontamination of field personnel is discussed in the site-specific Health and Safety Plan (HASP) included in Appendix A of the RIWP. Field sampling equipment that is to be reused will be decontaminated in the field in accordance with the following procedures:

1. Laboratory-grade glassware detergent and tap water scrub to remove visual contamination
2. Generous tap water rinse
3. Distilled/de-ionized water rinse

The need for decontamination during PFAS sampling will be avoided to the greatest extent possible. When possible, disposable and dedicated equipment will be used for each sample location to avoid potential cross contamination and limit errors from inadequate decontamination between samples. Bladder pumps and/or peristaltic pump tubing will not be re-used and therefore decontamination of sampling equipment between samples will not be necessary. Nitrile gloves will be changed between each step during set up and sampling.

Whenever an action occurs outside of procedure, such as the writing of field notes, nitrile gloves will be changed. Sampling equipment will be staged 5-feet away from the boring or open wellhead. Equipment not directly related to sampling will be staged in a separate area away from the boring or open wellhead. When inserting the tubing into the well, the surrounding platform will be avoided as a source of transference. While stabilizing the well, the pump will not be allowed to stop as backflow from the water quality meter can pose a risk to cross contamination. Once stability has been achieved, sampling will occur.

If re-use of sampling equipment is required, standard two step decontamination using detergent (Alconox or equivalent) and clean, PFAS-free water will be performed. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

5.8 Residuals Management

Debris (e.g., paper, plastic and disposable PPE) will be collected in plastic garbage bags and disposed of as non-hazardous industrial waste. Debris is expected to be transported to a local municipal landfill for disposal. If applicable, residual solids (e.g., leftover soil cuttings) will be placed back in the borehole from which it was sampled. If gross contamination is observed, soil will be collected and stored in Department of Transportation (DOT)-approved 55-gallon drums in a designated storage area at the site. The residual materials stored in a designated storage area at the site for further characterization, treatment or disposal.

5.9 Chain of Custody Procedures

A chain-of-custody protocol has been established for collected samples was and will be followed during sample handling activities in both field and laboratory operations. The primary purpose of the chain-of-custody procedures is to document the possession of the samples from collection through shipping, storage and analysis to data reporting and disposal. Chain-of-custody refers to

actual possession of the samples. Samples are considered to be in custody if they are within sight of the individual responsible for their security or locked in a secure location. Each person who takes possession of the samples, except for third-party shipping couriers, is responsible for sample integrity and safe keeping. Chain-of-custody procedures are provided below:

- Chain-of-custody will be initiated by the laboratory supplying the pre-cleaned and prepared sample containers. Chain-of-custody forms will accompany the sample containers.
- Following sample collection, the chain-of-custody form will be completed for the samples collected. The sample identification number, date and time of sample collection, analysis requested and other pertinent information (e.g., preservatives) will be recorded on the form. Entries will be made in waterproof, permanent blue or black ink.
- Langan field personnel will be responsible for the care and custody of the samples collected until the samples are transferred to another party, dispatched to the laboratory, or disposed. The sampling/Field Team Leader will be responsible for enforcing chain-of-custody procedures during field work.
- When the form is full or when all samples have been collected that will fit in a single cooler, the sampling/Field Team Leader will check the form for possible errors and sign the chain-of-custody form. Any necessary corrections will be made to the record with a single strike mark, dated, and initialed.

Samples will be packaged for shipment or pickup via courier to the laboratory with the appropriate chain-of-custody form. If applicable, a shipping bill will be completed for each cooler and the shipping bill number recorded on the chain-of-custody form. A copy of the form will be retained by the Langan sampling team for the project file, and the original will be sent to the laboratory with the samples. Bills of lading will also be retained as part of the documentation for the chain-of-custody records, if applicable. When transferring custody of the samples, the individuals relinquishing and receiving custody of the samples will verify sample numbers and condition and will document the sample acquisition and transfer by signing and dating the chain-of-custody form. This process documents sample custody transfer from the sampler to the analytical laboratory.

Laboratory chain-of-custody will be maintained throughout the analytical processes as described in the laboratory's Quality Assurance Manual. The analytical laboratory will provide a copy of the chain-of-custody in the analytical data deliverable package. The chain-of-custody becomes the permanent record of sample handling and shipment.

5.10 Laboratory Sample Storage Procedures

The subcontracted laboratory will use a laboratory information management system (LIMS) to track and schedule samples upon receipt by the analytical laboratories. Any sample anomalies identified during sample log-in must be evaluated on individual merit for the impact upon the results and the data quality objectives of the project. When irregularities do exist, Langan must be notified to discuss recommended courses of action and documentation of the issue must be included in the project file.

For samples requiring thermal preservation, the temperature of each cooler will be immediately recorded. Each sample and container will be assigned a unique laboratory identification number and secured within the custody room walk-in coolers designated for new samples. Samples will be, as soon as practical, disbursed in a manner that is functional for the operational team. The temperature of all coolers and freezers will be monitored and recorded using a certified temperature sensor. Any temperature excursions outside of acceptance criteria (i.e., below 2°C or above 6°C) will initiate an investigation to determine whether any samples may have been affected. Following analysis, the laboratory's specific procedures for retention and disposal will be followed as specified in the laboratory's SOPs and/or QA manual.

6.0 DATA REDUCTION, VALIDATION, AND REPORTING

6.1 Introduction

Data collected during the field investigation will be reduced and reviewed by the laboratory QA personnel, and a report on the findings will be tabulated in a standard format. The criteria used to identify and quantify the analytes will be those specified for the applicable methods in the USEPA SW-846 and subsequent updates. The data package provided by the laboratory will contain all items specified in the USEPA SW-846 appropriate for the analyses to be performed, and be reported in standard format.

The completed copies of the chain-of-custody records (both external and internal) accompanying each sample from time of initial bottle preparation to completion of analysis shall be attached to the analytical reports.

6.2 Data Reduction

The Analytical Services Protocol (ASP) Category B data packages and an electronic data deliverable (EDD) will be provided by the laboratory after receipt of a complete sample delivery group. The Project Manager will immediately arrange for archiving the results and preparation of result tables. These tables will form the database for assessment of the site contamination condition.

Each EDD deliverable must be formatted using a Microsoft Windows operating system and the NYSDEC data deliverable format for EQuIS. To avoid transcription errors, data will be loaded directly into the American Standard Code for Information Interchange (ASCII) format from the LIMS. If this cannot be accomplished, the consultant should be notified via letter of transmittal indicating that manual entry of data is required for a particular method of analysis. All EDDs must also undergo a QC check by the laboratory before delivery. The original data, tabulations, and electronic media are stored in a secure and retrievable fashion.

The Project Manager or Task Manager will maintain close contact with the QA reviewer to ensure all non-conformance issues are acted upon prior to data manipulation and assessment routines. Once the QA review has been completed, the Project Manager may direct the Team Leaders or others to initiate and finalize the analytical data assessment.

6.3 Data Validation

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

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

A DUSR will be prepared and reviewed by the QAO before issuance. The DUSR will present the results of data validation, including a summary assessment of laboratory data packages, sample preservation and COC procedures, and a summary assessment of precision, accuracy, representativeness, comparability, and completeness for each analytical method. A detailed assessment of each SDG will follow. For each of the organic analytical methods, the following will be assessed:

- Holding times;
- Instrument tuning;
- Instrument calibrations;
- Blank results;
- System monitoring compounds or surrogate recovery compounds (as applicable);
- Internal standard recovery results;
- MS and MSD results;
- Target compound identification;
- Chromatogram quality;
- Pesticide cleanup (if applicable);
- Compound quantitation and reported detection limits;
- System performance; and
- Results verification.

For each of the inorganic compounds, the following will be assessed:

- Holding times;
- Calibrations;
- Blank results;
- Interference check sample;
- Laboratory check samples;
- Duplicates;
- Matrix Spike;

- Furnace atomic absorption analysis QC;
- Inductively couple plasma (ICP) serial dilutions; and
- Results verification and reported detection limits.

Based on the results of data validation, the validated analytical results reported by the laboratory will be assigned one of the following usability flags:

- "U" - Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank;
- "UJ" - Not detected. Quantitation limit may be inaccurate or imprecise;
- "J" - Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method;
- "N" –Tentative identification. Analyte is considered present in the sample;
- "R" – Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample; and,
- No Flag - Result accepted without qualification.

7.0 QUALITY ASSURANCE PERFORMANCE AUDITS AND SYSTEM AUDITS

7.1 Introduction

Quality assurance audits may be performed by the project quality assurance group under the direction and approval of the QAO. These audits will be implemented to evaluate the capability and performance of project and subcontractor personnel, items, activities, and documentation of the measurement system(s). Functioning as an independent body and reporting directly to corporate quality assurance management, the QAO may plan, schedule, and approve system and performance audits based upon procedures customized to the project requirements. At times, the QAO may request additional personnel with specific expertise from company and/or project groups to assist in conducting performance audits. However, these personnel will not have responsibility for the project work associated with the performance audit.

7.2 System Audits

System audits may be performed by the QAO or designated auditors, and encompass a qualitative evaluation of measurement system components to ascertain their appropriate selection and application. In addition, field and laboratory quality control procedures and associated documentation may be system audited. These audits may be performed once during the performance of the project. However, if conditions adverse to quality are detected or if the Project Manager requests, additional audits may occur.

7.3 Performance Audits

The laboratory may be required to conduct an analysis of Performance Evaluation samples or provide proof that Performance Evaluation samples submitted by USEPA or a state agency have been analyzed within the past twelve months.

7.4 Formal Audits

Formal audits refer to any system or performance audit that is documented and implemented by the QA group. These audits encompass documented activities performed by qualified lead auditors to a written procedure or checklists to objectively verify that quality assurance requirements have been developed, documented, and instituted in accordance with contractual and project criteria. Formal audits may be performed on project and subcontractor work at various locations.

Audit reports will be written by auditors who have performed the site audit after gathering and evaluating all data. Items, activities, and documents determined by lead auditors to be in noncompliance shall be identified at exit interviews conducted with the involved management. Non-compliances will be logged, and documented through audit findings, which are attached to and are a part of the integral audit report. These audit-finding forms are directed to management to satisfactorily resolve the noncompliance in a specified and timely manner.

The Project Manager has overall responsibility to ensure that all corrective actions necessary to resolve audit findings are acted upon promptly and satisfactorily. Audit reports must be submitted to the Project Manager within fifteen days of completion of the audit. Serious deficiencies will be reported to the Project Manager within 24 hours. All audit checklists, audit reports, audit findings, and acceptable resolutions are approved by the QAO prior to issue. Verification of

acceptable resolutions may be determined by re-audit or documented surveillance of the item or activity. Upon verification acceptance, the QAO will close out the audit report and findings.

8.0 CORRECTIVE ACTION

8.1 Introduction

The following procedures have been established to ensure that conditions adverse to quality, such as malfunctions, deficiencies, deviations, and errors, are promptly investigated, documented, evaluated, and corrected.

8.2 Procedure Description

When a significant condition adverse to quality is noted at site, laboratory, or subcontractor location, the cause of the condition will be determined and corrective action will be taken to preclude repetition. Condition identification, cause, reference documents, and corrective action planned to be taken will be documented and reported to the QAO, Project Manager, Field Team Leader and involved contractor management, at a minimum. Implementation of corrective action is verified by documented follow-up action.

All project personnel have the responsibility, as part of the normal work duties, to promptly identify, solicit approved correction, and report conditions adverse to quality. Corrective actions will be initiated as follows:

- When predetermined acceptance standards are not attained;
- When procedure or data compiled are determined to be deficient;
- When equipment or instrumentation is found to be faulty;
- When samples and analytical test results are not clearly traceable;
- When quality assurance requirements have been violated;
- When designated approvals have been circumvented;
- As a result of system and performance audits;
- As a result of a management assessment;
- As a result of laboratory/field comparison studies; and,
- As required by USEPA SW-846, and subsequent updates, or by the NYSDEC ASP.

Project management and staff, such as field investigation teams, remedial response planning personnel, and laboratory groups, monitor on-going work performance in the normal course of daily responsibilities. Work may be audited at the sites, laboratories, or contractor locations. Activities, or documents ascertained to be noncompliant with quality assurance requirements will be documented. Corrective actions will be mandated through audit finding sheets attached to the audit report. Audit findings are logged, maintained, and controlled by the Task Manager.

Personnel assigned to quality assurance functions will have the responsibility to issue and control Corrective Action Request (CAR) Forms (Figure 8.1 or similar). The CAR identifies the out-of-compliance condition, reference document(s), and recommended corrective action(s) to be administered. The CAR is issued to the personnel responsible for the affected item or activity. A copy is also submitted to the Project Manager. The individual to whom the CAR is addressed returns the requested response promptly to the QA personnel, affixing his/her signature and date to the corrective action block, after stating the cause of the conditions and corrective action to be taken. The QA personnel maintain the log for status of CARs, confirms the adequacy of the intended corrective action, and verifies its implementation. CARs will be retained in the project file for the records.

Any project personnel may identify noncompliance issues; however, the designated QA personnel are responsible for documenting, numbering, logging, and verifying the close out action. The Project Manager will be responsible for ensuring that all recommended corrective actions are implemented, documented, and approved.

FIGURE 8.1

CORRECTIVE ACTION REQUEST Number: _____ Date: _____
TO: _____ You are hereby requested to take corrective actions indicated below and as otherwise determined by you to (a) resolve the noted condition and (b) to prevent it from recurring. Your written response is to be returned to the project quality assurance manager by _____
CONDITION:
REFERENCE DOCUMENTS:
RECOMMENDED CORRECTIVE ACTIONS:
_____ _____ _____ _____ _____ _____ Originator Date Approval Date Approval Date
RESPONSE
CAUSE OF CONDITION
CORRECTIVE ACTION (A) RESOLUTION (B) PREVENTION (C) AFFECTED DOCUMENTS
C.A. FOLLOWUP: CORRECTIVE ACTION VERIFIED BY: _____ DATE:_____

9.0 REFERENCES

NYSDEC. Division of Environmental Remediation. DER-10/Technical Guidance for Site Investigation and Remediation, dated May 3, 2010.

NYSDEC. Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Party 375 Remedial Programs, dated October 2020.

NYSDOH. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006.

Taylor, J. K., 1987. Quality Assurance of Chemical Measurements. Lewis Publishers, Inc., Chelsea, Michigan

USEPA, 1986. SW-846 "Test Method for Evaluating Solid Waste," dated November 1986. U.S. Environmental Protection Agency, Washington, D.C.

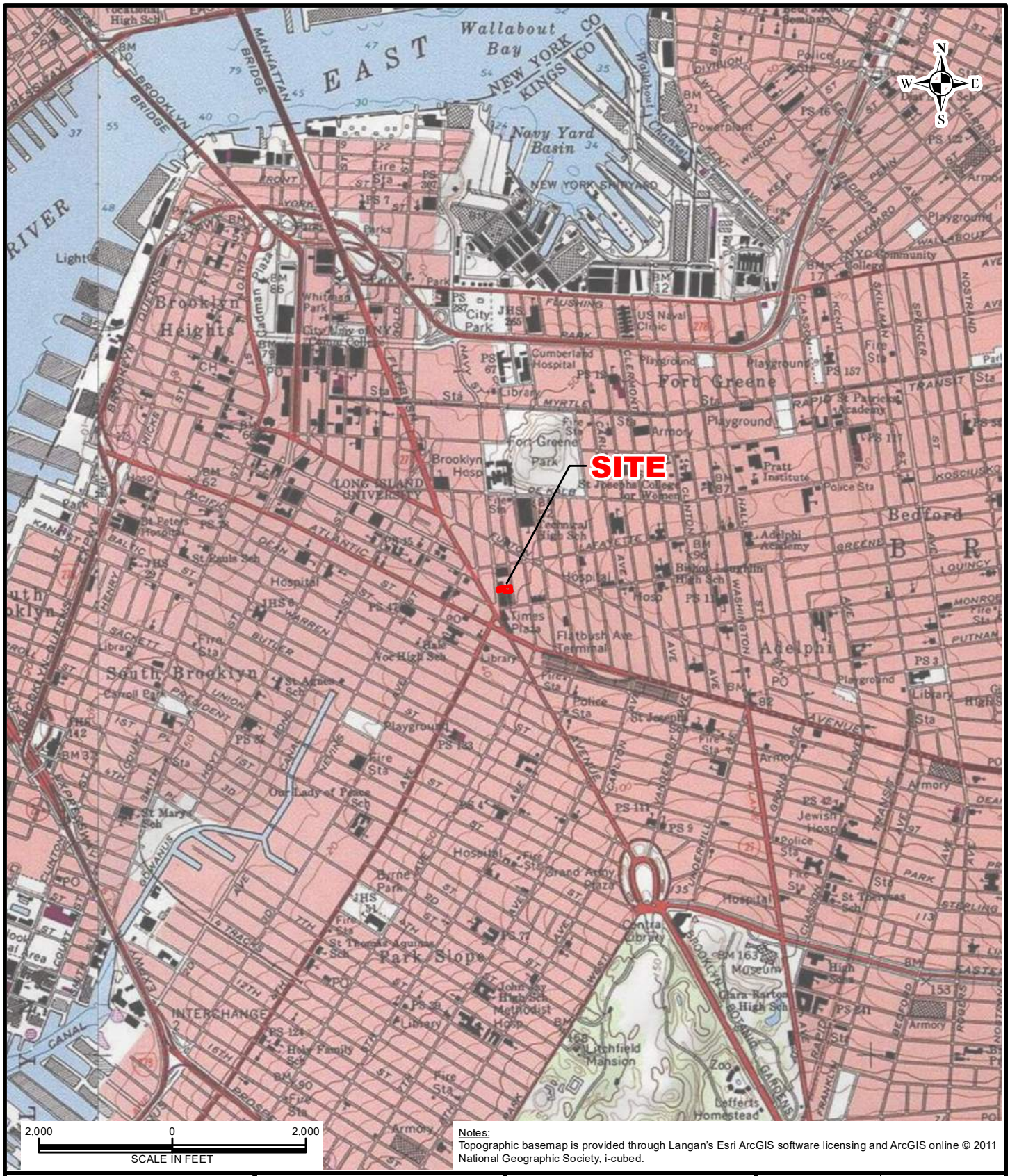
USEPA, 1987. Data Quality Objectives for Remedial Response Actions Activities: Development Process, EPA/540/G-87/003, OSWER Directive 9355.0-7 - U.S. Environmental Protection Agency, Washington, D.C.

USEPA, 1992a. CLP Organics Data Review and Preliminary Review. SOP No. HW-6, Revision #8, dated January 1992. USEPA Region II.

USEPA, 1992b. Evaluation of Metals Data for the Contract Laboratory Program (CLP) based on SOW 3/90. SOP No. HW-2, Revision XI, dated January 1992. USEPA Region II.

USEPA. Hazardous Waste Support Section. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15. SOP No. HW-31, Revision #6, dated June 2014.

FIGURES



Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

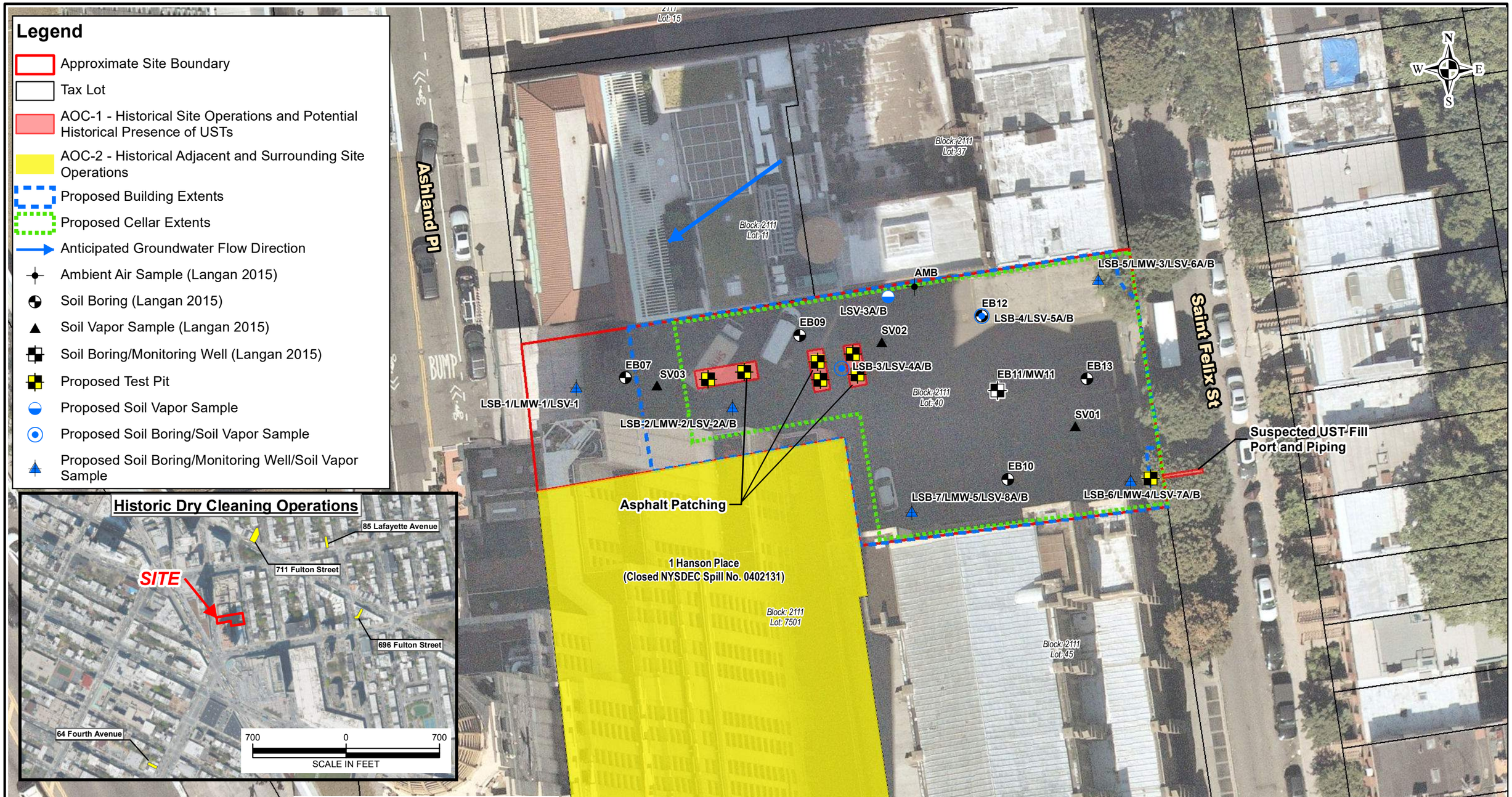
Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	100842301
Date	7/30/2020
Scale	1"=2,000'
Drawn By	ATR
Figure	1

© 2013 Langan

Path: \\langan.com\data\PAR\data3\100842301\Project Data\ArcGIS\MXD\Environmental_Figures\2020-07 - RIWP\Figure 1 - Site Location Map.mxd Date: 7/30/2020 User: aruane Time: 1:07:04 PM



30 0 30
SCALE IN FEET

Notes:
1. Aerial imagery provided by Nearmap ltd., collected September 20, 2019.
2. Parcel information from MapPLUTO 18v2 copyrighted by the New York City Department of Planning.
3. Historic sample locations from June 2015 Subsurface Investigation Report, prepared by Langan.
4. All historic sample locations are approximate.
5. UST fill port and piping were detected during NOVA's 2020 Geophysical Survey. Approximate locations of asphalt patches are based on field observations made by Langan in 2020.
6. Historic monitoring well MW11 will be resampled.
7. Proposed Test Pit locations may change based on field observations.
8. LSV-1 and LSV-2A through LSV-8A will be installed to 5 ft bgs and LSV-2B through LSV-8B will be installed to 20.5 ft bgs.

LANGAN
300 Kimball Drive
Parsippany, NJ 07054
T: 973.560.4900 F: 973.560.4901 www.langan.com
Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
Langan International LLC
Collectively known as Langan
NJ CERTIFICATE OF AUTHORIZATION No. 24GA27996400

Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN NEW YORK

Drawing Title
AREAS OF CONCERN AND PROPOSED SAMPLE LOCATION PLAN

Project No.	100842301
Date	12/11/2020
Scale	1 " = 30 '
Drawn By	ATR
Figure	2

© 2012 Langan

Path: \\Langan.com\data\PAR\data3\100842301\Project Data\ArcGIS\MXD\Environmental_Figures\2020-12 - Revised RIWP\Figure 5 - Areas of Concern and Proposed Sample Location Plan.mxd Date: 12/11/2020 User: ibaker Time: 2:04:13 PM

ATTACHMENT A

Resumes

DANA MONZ

DATA ANALYST

CAD/GIS

1 year in the industry

Proposed Title: Field Technician

Ms. Monz is a data analyst with experience in database design, management and visualization using EarthSoft's EQuIS™ database in support of environmental site characterizations for sites regulated under federal and state compliance programs. Her expertise includes integration of analytical databases and coordination with GIS users.

In her current role Dana, assists project teams with planning and implementation of project databases and data visualization. This includes coordinating with field staff and laboratories to define, workflows, SOPs and ensure the receipt of the proper deliverables for field and lab data; reviewing and managing project data and information using EQuIS™, Microsoft® Access, and Excel; generating data reports including tables, graphs, charts, and GIS compatible files; and generating and reviewing electronic data deliverables following project or agency specific formats.

SELECTED PROJECTS

Gowanus Canal Northside, Brooklyn, NY – Data Analyst. Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a remedial investigation of a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site. Provided final report deliverables including; sample summary; tags; and exceedance summary exports from EQuIS.

2 Ingraham Street, Brooklyn, NY – Data Analyst. Collected soil samples to investigate Areas of Concern (AOCs) established in the Supplemental Remedial Investigation Work Plan (SRIWP). Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a supplemental remedial investigation of a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site. Provided final report deliverables, including sample summary tables and tag tables. Submitted data to NYSDEC.

Willets Point, Brooklyn, NY – Data Analyst. Coordinated with project team and determined appropriate sample nomenclature for the site, which contained multiple areas of concern. Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a remedial investigation and waste characterization of a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site. Responsible for coordination with GIS team to get data from EQuIS into the site specific GIS web viewer. Provided final report deliverables including; sample summary; tags; and exceedance summary exports from EQuIS.

Education

B.A., Environmental Studies
Colgate University

Professional Registration

OSHA 40-Hour HAZWOPER

OSHA 10-Hour Construction

Work History

Langan
Data Analyst
7/16/2018 – Present

41 Kensico Drive, Mount Kisco, NY – Data Analyst. Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a remedial investigation and waste characterization of a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site. Review NYSDEC Screening and Assessment of Contaminated Sediment (SACS) Freshwater Sediment Guidance Values and NYSDEC Part 703.5, Division of Water Technical and Operational Guidance Series (TOGs) (1.1.1) Class C criteria and load both sets to EQuIS database to use as comparison criteria for the analysis of data.

550 W 20th Street, New York, NY – Data Analyst. Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a Phase II Environmental Site Investigation. Review New York City Department of Environmental Protection (NYCDEP) Limitations for Effluent to Sanitary or Combined Sewers and load comparison criteria to EQuIS for analysis of DEP Effluent Discharge Sample. Provided final report deliverables including; sample summary; tags; and exceedance summary exports from EQuIS.

EQuIS Management and NYSDEC deliverables – Data Analyst. Loaded and maintained soil, groundwater, and soil vapor data in an EQuIS database for a remedial investigation and waste characterization of a New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) site. Provided final report deliverables including; sample summary; tags; and exceedance summary exports from EQuIS. Completed this work for the following projects:

- **82 King Street, New York, NY**
- **416 Kent Avenue, Brooklyn, NY**
- **420 Kent Avenue, Brooklyn, NY**
- **702 Nostrand Avenue, Brooklyn, NY**
- **ABC Block 25, 4-40 44th Avenue, Long Island City, NY**
- **ABC Block 26, 5-25 46th Avenue, Long Island City, NY**
- **ABC Block 27, 5-46 46th Avenue, Long Island City, NY**
- **335 Bond Street, Brooklyn, NY**
- **29 53rd Street, Brooklyn, NY**
- **Kings Plaza Shopping Center, Brooklyn, NY**
- **DuPont Stauffer Landfill, Newburgh, NY**
- **175-225 Third Street, New York, NY**
- **Silvercup West - NYPA, Queens, NY**
- **Greenpoint Marina, Brooklyn, NY**
- **491 Wortman Avenue, Brooklyn, NY**
- **Gerard and 146th Street, The Bronx, NY**
- **12 Franklin Street, Brooklyn, NY**
- **27-01 Jackson Avenue, Long Island City, NY**
- **627 Smith Street, Brooklyn, NY**
- **561 Greenwich Avenue, New York, NY**
- **23-10 Queens Plaza South, Long Island City, NY**
- **473 President Street, Brooklyn, NY**
- **4650 Broadway, New York, NY**
- **2420 Amsterdam Avenue, New York, NY**
- **10-37 Beach Street, New York, NY**
- **538-544 Hudson Street, New York, NY**
- **26-32 Jackson Avenue, Long Island City, NY**
- **1095 Southern Boulevard, The Bronx, NY**
- **432 Rodney Street, Brooklyn, NY**
- **300 West 122nd, New York, NY**

HEATHER NUNN, GISP

PROJECT DATA ANALYST
IT/CADD/GIS

Ms. Nunn has over nine years of experience with database design, management and visualization using EarthSoft EQuIS database and ESRI ArcGIS in support of environmental site characterizations for sites regulated under federal and state compliance programs. Her expertise includes integration of analytical databases and GIS.

In her current role, Ms. Nunn assists project teams with planning and implementation of project databases and data visualization. This includes coordinating with field staff and laboratories to define workflows, ensure the receipt of the proper deliverables for field and lab data; reviewing and managing project data and information using EQuIS, Microsoft Access, and Excel; generating data reports including tables, graphs, charts, and GIS compatible files; and generating and reviewing electronic data deliverables following project or agency specific formats. Ms. Nunn also assists project teams with GIS tasks including spatial analysis, report figure generation, software conversions and general support.

SELECTED PROJECTS

- Air Products and Chemicals, Various Locations, NJ
- Brodson-Montville, NJ
- CERCLA 554 Old Water Works Rd, Old Bridge, NJ
- Confidential Client Phase II ESA – AL, CA, CT, FL, IL, IN, KS, KY, LA, MD, MA, MD, MI, MN, MO, NH, NJ, NM, NY, OH, PA, TX, UT, VA, WA,
- Curtiss Wright, NJ
- Former Roche Facility, Belleville, NJ
- JCP&L, Various locations, NJ
- NPDES Landfill Compliance Sampling & Reporting, West Union, WV
- PRC, Paulsboro, NJ
- Project Flash, Gold Coast, FL
- UPMC, Various Locations, PA
- US Steel, Tullytown, PA
- Various NYC BCP projects

SELECTED PUBLICATIONS, REPORTS, AND PRESENTATIONS

Best Data Management Practices in GIS - NEARC Newport, Rhode Island (November 2017)

Interactive ESA Mapping Rutgers - DPCC Continuing Professional Education Class New Brunswick, NJ, March 1017

Querying an EQuIS Database in ArcGIS, Esri User Conference Poster Presentation, San Diego, California, June 2016.

Batch Contour Creation in Minutes Using EQuIS for ArcGIS, Esri User Conference Poster Presentation, San Diego, California, June 2016.

EDUCATION

B.S., Geography
Indiana University of Pennsylvania

B.S., Regional Planning
Indiana University of Pennsylvania

PROFESSIONAL REGISTRATION

GISP License #: 99268

AFFILIATIONS

Perkasie Planning Commission

URISA

Pennsylvania Mapping and Geographic Information Consortium

Women in GIS

Emily G. Strake, CEP
Senior Project Chemist/ Risk Assessor

Human Health Risk Assessment
Chemical Data Validation

19 years in the industry ~ 6 years with Langan

Ms. Strake has eighteen years of environmental chemistry, risk assessment, auditing, and quality assurance experience. Most recently, she has focused her efforts on human health risk assessment, and has been the primary author or key contributor of risk assessment reports and screening evaluations for projects governed under RCRA, CERCLA, PADEP, DNREC, SWRCB, DTSC, NJDEP, CTDEEP, ODEQ, NYSDEC and MDE. She has experience in site-specific strategy development, which has enabled her to perform assessments to focus areas of investigation and identify risk-based alternatives for reducing remediation costs. Ms. Strake is a member of the Interstate Technology and Regulatory Council Risk Assessment Team responsible for the development and review of organizational risk assessment guidance documents and serves as a National Trainer in risk assessment for the organization.

Ms. Strake has extensive experience assessing potential adverse health effect to humans from exposure to hazardous contaminants in soil, sediment, groundwater, surface water, ambient and indoor air, and various types of animal, fish, and plant materials. She understands and applies environmental cleanup guidance and policies associated with multiple federal and state agencies. Additionally, she has broad experience in the development of preliminary remediation goals and site-specific action levels. She is proficient with the USEPA and state-modified Johnson and Ettinger Models for Subsurface Vapor Intrusion into Buildings, USEPA's Adult Lead Methodology, IEUBK Methodology, DTSC's Leadspread 7 and 8, evaluation of aerobic biodegradation potential using API's BioVapor Model, and statistical evaluation of data using USEPA's ProUCL software. In addition, Ms. Strake is experienced in presentation of risk information at public meetings.

Ms. Strake has extensive experience in environmental data validation, focused on ensuring laboratory deliverables follow specific guidelines as described by regulatory agencies and the analytical methods employed. She also has a broad range of environmental field experience and maintains current OSHA HAZWOPER certification.

Ms. Strake is experienced in auditing laboratory methodology and field-sampling activities for compliance with Quality Assurance Project Plans (QAPPs), the National Environmental Laboratory Accreditation Conference Standards Quality Systems manual, and applicable USEPA Guidance. Ms. Strake has also audited on-site laboratories in support of groundwater treatment operations and implemented corrective actions. Her responsibilities include writing reports on the value of laboratory work, writing/editing QAPPs for clients and project-specific sites, peer reviewing colleague's work, and mentoring staff within the office. She has also served as the Quality Assurance officer for several long-term projects, responsible for the achievement of all forms of Quality Control/Quality Assurance by onsite personnel relating to sampling, analysis, and data evaluation.

Education

M.B.A., Business Administration
The University of Scranton

B.S., Chemistry
Cedar Crest College

Certification

Board Certified Environmental Professional (CEP) in Assessment

Memberships

Interstate Technology and Regulatory Council

Montgomery Township Environmental Advisory Committee Member, Term ending 1/1/2019.

Society for Risk Analysis

Training

40 hr. OSHA HAZWOPER Training/Nov 2002

8 hr. HAZWOPER Supervisor/June 2004

8 hr. OSHA HAZWOPER Refresher/Oct 2018

Publications/Presentations

Decision Making at Contaminated Sites: Issues and Options in Human Health Risk Assessment. Interstate Technology and Regulatory Council

Alternate Approaches for Act 2 Risk Assessments Using Site-Specific Information. Pennsylvania Brownfields Conference

Risk Assessment in Remediation
Montclair State University

Ms. Strake has several years' experience analyzing investigative samples, writing laboratory Standard Operating Procedures (SOPs), and managing all aspects of procedures and analyses for Optical Emission Spectrometry, X-Ray Fluorescence, Ignition analysis, and Atomic Absorption. Her experience also includes operating and performing routine instrument maintenance for GC/MS and IR. Ms. Strake has worked extensively on developing rapid soil characterization programs for PCB and pesticide analyses utilizing enzyme-linked immunosorbent assays, and was also involved in efforts to develop new instrumentation to quantify microbial nitrification of ammonium.

Selected Project Experience

Human Health Risk Assessment

- Major League Soccer's San Jose Earthquakes Stadium – Utilized heuristic soil gas model to calculate risk and hazard associated with inhalation of chlorinated solvents for the redevelopment of a public soccer stadium. Soil gas data was modeled assuming three soil stratum and site-specific soil, building, and exposure parameters. The Earthquakes' stadium opened in 2015.
- Completed a human health risk assessment to determine if exposure to asbestos fibers in dried sediment posed a potentially unacceptable risk to nearby residents. The health risk assessment considered the contribution of naturally occurring asbestos associated with serpentine rock. Soil background samples were used to derive the mean concentration of all polarized light microscopy (PLM) samples. Chrysotile was the only asbestos type found during the PLM analysis.
- Texas Instruments – Participated in a collaboration to develop comments to USEPA Region IX and the San Francisco Regional Water Quality Control Board regarding vapor intrusion at South Bay Superfund Sites. The focus of the response was to outline scientific and policy objections to EPA's recommended TCE interim short-term indoor air response action levels and guidelines, and to clarify the use of California-modified indoor air screening levels for assessing and responding to TCE and PCE subsurface vapor intrusion into indoor air.
- Confidential Client – derived cancer risk estimates associated with exposure to airborne asbestos fibers during construction of a NBA sports arena. A sensitive receptor zone, representing a 1,000 ft. radial diameter from the project site, was established to determine those receptors requiring quantitative risk evaluation. Risk-based ambient air quality standards were established for transmission electron microscopy (TEM) asbestos.
- Completed a human health risk assessment, including submission of a Memorandum on Exposure Scenarios and Assumptions (MESA), Pathways Analysis Report (PAR), and Baseline Human Health Risk Assessment (BHHRA) for a CERCLA site in Fair Lawn, New Jersey under USEPA Region 2 lead. The evaluation included assessment of potentially complete groundwater and surface water pathways for residents, industrial workers, recreators, utility workers, and construction workers. The risk assessment approach and conclusions received USEPA approval in 2018.
- Performed a baseline risk assessment for hypothetical future residents at a CERCLA site in Hagerstown, Maryland. The evaluation included evaluation of ingestion, dermal contact, and inhalation of chemicals in groundwater. Linear low dose cancer risk

was assessed as well as one-hit cancer risk, with specific focus on pesticides and PCBs.

- Confidential Client – Performed an exposure assessment associated with exposure to fiberglass/crystalline silica in broken acoustic tile. Supported the identification of analytical methodology for evaluation of silica on air filters.
- Golden Gate National Parks Conservancy – Peer reviewed a Preliminary Endangerment Assessment Report for the Battery East Trail. The assessment included a human health risk evaluation that estimated carcinogenic risk from exposure to PAHs and dioxin/furans in soil using toxic equivalency to benzo(a)pyrene and 2,3,7,8-TCDD.
- Performed a site-specific risk assessment for recreational land use at a CERCLA site in Santa Barbara County. The risk assessment derived incremental lifetime cancer risk estimates associated with PCBs evaluated as Aroclors in surface soil. The risk assessment approach and conclusions received multi-agency approval in 2017.
- Calculated a site-specific groundwater standard for indane on the basis of toxic analogy. A surrogate toxicity value approach was implemented due to limited availability of toxicological information related to indane. The site-specific standard was accepted by NJDEP in 2017.
- Delaware City Refinery - Performed comprehensive human health risk assessment for a petroleum refinery in Delaware City, Delaware under the RCRA program. The risk assessment was the basis for a thorough characterization and assessment of potential risks posed by site-specific conditions. Developed various human exposure scenarios by using both Federal and State-Specific guidance for soil, groundwater, and surface water exposure.
- DuPont - Worked as a key participant in the human health risk evaluation of mercury associated with legacy contamination of the South River located in Waynesboro, Virginia.
- Veteran's Affairs - Completed a human health risk evaluation of the potential future risk associated with inhalation of indoor air for the Veteran's Administration. Soil, soil gas, and groundwater samples were collected as part of the site characterization. Achieved DTSC approval of the risk assessment approach and conclusions.
- Santa Clara Landfill – Developed a human health risk assessment to characterize risk associated with exposure to landfill gas at the Santa Clara All Purpose Landfill. The risk assessment evaluated specific compounds in landfill gas, their concentrations, spatial patterns, and extent throughout the site, and assessed the potential for vapor intrusion associated with a proposed future redevelopment.
- Occidental Chemical – Completed multiple AOC-specific risk assessments utilizing and applying the guidance set forth by the DTSC's Human Health Risk Assessment Note 1 (Default Exposure Factors for Use in Risk Assessment), Note 3 (Recommended Methodology for Use of USEPA Regional Screening Levels), and Note 4 (Screening Level Human Health Risk Assessments).
- Exelon - Developed a human health risk assessment for a utility-owned former Manufactured Gas Plant (MGP) site in Pennsylvania, under Pennsylvania's Act 2 Program. Used ProUCL statistical

software to determine upper limits for full data sets and non-detect data. Conducted vapor intrusion modeling (via the Johnson & Ettinger model) and prepared vapor intrusion reports showing that risks to volatile organic compounds in soils and groundwater were not impacting indoor air quality.

- Avon - Completed a human health risk assessment for a redevelopment property located in Rye, New York. The objective of the evaluation was to characterize the risks associated with potential future human exposures to soil and groundwater affected by a release from the Site's former No. 2 fuel oil UST. The intended future use of the Site was a playground to be utilized by the general public for open play on commercial recreational equipment.
- Sunoco Refineries – Derived site-specific soil PRGs for lead using the EPA's adult lead model for two former Sunoco refineries. Achieved PADEP approval in May 2015. Completed receptor evaluations in accordance with USEPA risk assessment guidance to develop exposure parameters under current and reasonably anticipated future land use scenarios.
- Honeywell - Completed a focused human health risk evaluation of PAH contaminants for under NJDEP's Site Remediation Program. Applied a blended approach of qualitative risk characterization and quantitative risk calculation to propose closure of AOCs following the remedial investigation.
- Floreffe Terminal - Performed human health risk assessment for contamination resulting from a 3.9 million gallon diesel oil tank collapse along the Monongahela River. Evaluated potential impacts to human health via exposure to soil, groundwater, and surface water. Calculated site-specific standards for soil remediation.
- DOW Chemical - Calculated Medium Specific Concentrations for unregulated contaminants using the PADEP protocols to assist in the clean-up of a monomer tank explosion in Bristol, Pennsylvania. Selected appropriate surrogate toxicity data and evaluated novel on-site constituents by analogy.
- Ryder – Developed Alternative Direct Exposure Criteria for PAH-impacted fill material at a commercial facility. Site-specific soil screening levels for incidental ingestion of soil were calculated following a forward risk evaluation for current on-site receptors.
- Rohm and Haas - Prepared an Act 2 site-specific human health risk assessment for the oldest industrial facility in the United States, located in southeast Philadelphia. The objective of the risk assessment was to determine achievable possible future land-use options under Pennsylvania's Land Recycling Program. The risk assessment included evolution of multiple site-COPCs and constituent suites: VOCs, SVOCs, PCBs, pesticides, and metals (including lead). Evaluated the potential for indoor air inhalation through J&E modeling of soil gas and groundwater.
- Regency - Conducted vapor intrusion modeling for a dry cleaning facility in the Philadelphia area. Predictive modeling using the Johnson and Ettinger approach indicated that estimated contaminant levels would not adversely affect human receptors.

Chemical Data Quality

- Participated in a CERCLA site investigation; assessed the usability of sample results for numerous matrices including dust, sediment,

soils, and various aqueous matrices for a remedial investigation under the Contract Laboratory Program. Implemented an on-site pesticide immunoassay program to delineate soil contamination in real-time.

- Coordinated the collection of fish tissue samples and determined the validity of the analytical results associated with CERCLA and RCRA site characterizations. Assessed duck blood analytical results for the Connecticut Department of Energy and Environmental Protection Bureau of Natural Resources.
- Audited multiple accredited laboratories in New Jersey and Pennsylvania on behalf of clients using USEPA Guidance on Technical Audits and Related Assessments for Environmental Data Operations. The audits included full-suite USEPA and SW-846 methodology; and included reviewing staff experience and training records, equipment and facilities, policies, practices, procedures, and documentation for sample receipt, analysis, instrument maintenance, standard preparation, calibration and traceability, control charting, corrective actions, data reduction and review, report generation, and waste disposal.
- Reviewed and validated data packages for RCRA Facilities Investigation at a Philadelphia-area chemical site; issued data validation reports to project personnel and regulatory agencies. The reviews included evaluation of quarterly groundwater, soil, and soil vapor matrices. Participated in RCRA groundwater sampling, developed and executed the investigation's QAPP, and coordinated with the laboratory to schedule and perform field-sampling events.
- Completed Data Usability Summary Reports in accordance with NYSDEC DER-10 guidance for soil, groundwater, sediment surface water, soil gas, ambient air and indoor air analytical results.
- Acted as the Quality Assurance Officer for several long-term projects in Pennsylvania, Maryland, and New Jersey, Delaware, responsible for the achievement of all forms of QA/QC as it related to sampling, analysis, and data evaluation.

BRANDON REINER, EIT

SENIOR STAFF ENGINEER

ENVIRONMENTAL ENGINEERING

Mr. Reiner has 4 years of experience in environmental engineering. His responsibilities include conducting field investigations as well as providing oversight on environmental construction and remediation projects throughout the New York & New Jersey area.

SELECTED PROJECTS

- 100 Middlesex Avenue, Carteret, NJ
- 101 Murray Street, New York, NY
- 110 University Place, New York, NY
- 111 Washington Street Development, New York, NY
- 1525 Bedford Avenue, Brooklyn, NY
- 158 Bergen Turnpike, Ridgefield Park, NJ
- 1681-1693 Third Avenue Development, New York, NY
- 1766-1768 Second Avenue, New York, NY
- 17th Street Development, New York, NY
- 228 Cherry Street, New York, NY
- 365 Bond Street Residential Development, Brooklyn, NY
- 432 Rodney Street, Brooklyn, NY
- 50 Norfolk Street, New York, NY
- 530-548 West 53rd/543 West 52nd Street, New York, NY
- 536-544 W. 26th St. Development, New York, NY
- 545 Sackett Street, Brooklyn, NY
- Brodson, Montville, NJ
- City Point Tower 3 / 138 Willoughby St, Brooklyn, NY
- Collegiate School New Building Project, New York, NY
- Con Edison 11th Ave & 50th St. Spill, New York, NY
- Dwight-Englewood School Village Project, Englewood, NJ
- Fresh Direct Warehouse, Bronx, NY
- Hess Terminal, Edgewater, NJ
- Horace Mann School, New Buildings
- Lowe's Home Improvement Store, Eatontown, NJ
- Marble Collegiate Church Office Building, New York, NY
- 700 Jackson Redevelopment and Resiliency Park, Hoboken, NJ
- NPL Environmental Due Diligence, Old Bridge, NJ
- NYU Langone Medical Center, Tisch Hospital Courtyard, New York, NY
- Pan Graphics, Lodi, NJ
- Project P Development, New York, NY
- Stop & Shop, Emerson, NJ
- Village Green Marketplace, Chestnut Ridge, NY

EDUCATION

B.S., Civil/Environmental Engineering
Pennsylvania State University

PROFESSIONAL REGISTRATION

Engineer in Training (EIT)

AFFILIATIONS

American Society of Civil Engineers

Jessica Friscia

Senior Staff Engineer
Environmental Engineering

4 years in the industry ~ 4 years with Langan

Ms. Friscia's experience includes field work and office work on environmental investigation and remediation projects across New Jersey and New York. Her field work experience includes soil, soil vapor, and groundwater sampling; drilling oversight; air monitoring; soil management; and remediation oversight, including excavation, zero-valent iron injections, air sparge/SVE system installation, MPE system installation, and SSDS installation. Her office work experience includes EQuIS database management, data evaluation, remedial design, and report work, including, but not limited to, Phase I ESAs, Preliminary Assessment/Site Investigations, Remedial Investigation Reports, Remedial Action Work Plans, and Remedial Action Reports.

Selected Projects

Former Penick Corporation Facility RCRA Site, Montville, NJ – Remedial Investigation, Remedial Design, Remedial Pilot Testing, Remedial Action

Bond Street Brownfields Redevelopment Site, Brooklyn, NY – Remedial Investigation, Remedial Action, EPA-approved Bulkhead Installation along Gowanus Canal Superfund Site

Former Pan Graphics Facility, Garfield, NJ – Remedial Monitoring

Former Flintkote Company Facility Site, East Rutherford, NJ – Remedial Action
Former Agricultural Research Facility, West Windsor, NJ – Due Diligence File Review

Liberty Plaza VCP Site, Randallstown, MD – Remedial Investigation, Remedial Action

Consolidated Edison Site, New York, NY – Remedial Alternative Evaluation
Kent Avenue Site, Brooklyn, NY – Due Diligence, Remedial Alternative Cost Estimation

505 West 19th Street NYCOER E-Designated Site, New York, NY – Remedial Investigation

401 Washington Street NYCOER E-Designated Site, New York, NY – Remedial Investigation

400 Park Avenue South Site NYCOER E-Designated Site, New York, NY – Remedial Investigation, Remedial Action

Education

M.E., Environmental and Water Quality Engineering
Massachusetts Institute of Technology

B.E., Civil Engineering
The Cooper Union for the Advancement of Science and Art

Professional Registration

Engineer in Training: NY

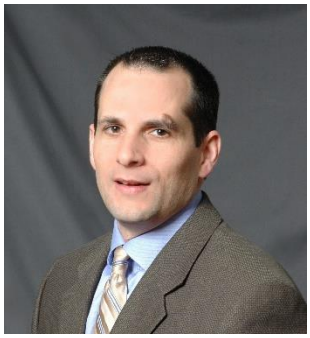
OSHA 40-Hour HAZWOPER 29 CFR 1910.120(e)(4) Certification

LANGAN

ANTHONY MOFFA, JR., ASP, CHMM, COSS, CSP

ASSOCIATE
CORPORATE HEALTH AND SAFETY MANAGER

Anthony is Langan's Corporate Health & Safety Manager and is responsible for managing health and safety compliance in all Langan office locations. He has nearly 20 years of experience in the health and safety field. He is responsible for ensuring compliance with all federal and state occupational health and safety laws and development and implementation of corporate health and safety policies. His responsibilities include reviewing and updating Langan's Corporate Health and Safety Program and assisting employees in the development of site specific Health & Safety Plans. He maintains and manages health and safety records for employees in all Langan office locations including medical evaluations, respirator fit testing, and Hazardous Waste Operations and Emergency Response training. He is also responsible for documentation and investigation of work-related injuries and incidents and sharing this information with employees to assist in the prevention of future incidents. He is also the chairman of the Corporate Health & Safety Committee and Health & Safety Leadership Team that meet periodically throughout the year. He is responsible for coordinating and providing health and safe training to Langan employees. He was formerly the Environmental, Health and Safety Coordinator at a chemical manufacturer. His experience included employee hazard communications, development of material safety data sheets for developed products, respirator fit testing and conducting required Occupational Health & Safety Association and Department of Transportation training.



EDUCATION

B.S., Physics
West Chester University

PROFESSIONAL REGISTRATION

Associate Safety Professional (ASP)

Certified Hazardous Material Manager (CHMM)

Certified Occupational Safety Specialist (COSS)

Certified Safety Professional (CSP)

AFFILIATIONS

Pennsylvania Chamber of Business & Industry

Chemical Council of New Jersey

New Jersey Business & Industry Association

Geoprofessional Business Association

American Society of Safety Professionals

Christopher McMahon, CHMM

Associate

Brownfield Redevelopment, Environmental Site Assessments, Site Investigation/Remedial Actions, Vapor Intrusion Investigations

15 years in the industry ~ 9 years with Langan

Mr. McMahon is a consulting geologist whose primary focus within his tenure at Langan has been in providing environmental support to redevelopment sites within the metropolitan New York area. He has experience with projects in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup, Voluntary Cleanup and Spill Programs, and New York City Office of Environmental Remediation E-Designated and New York City Voluntary Cleanup Program sites. These projects have included the completion of Phase I environmental site assessments, Phase II and remedial investigations, UST closures, NYSDEC closures and remedial excavation oversight for off-site disposal and/or treatment. Mr. McMahon also has significant field experience including implementation and management of all phases of environmental projects involving soil, sediment, groundwater, surface water, and soil vapor contamination including Phase I inspections, Phase II site investigations, Remedial Investigations, and Remedial Actions.

Many of these projects have included his oversight of remedial actions to clean up or mitigate hazardous waste sites in rural, urban, and industrial settings. These remedial action designs have included in-situ soil remedial injections, contaminated soil removal/disposal management plans, and soil vapor intrusion mitigation systems including advanced vapor barriers and sub-slab depressurization systems.

Selected Projects

NYSDEC Brownfield Redevelopment 363 and 365 Bond Street, Brooklyn, NY
NYSDEC Brownfield Redevelopment, Fashion Outlets of Niagara Falls, NY
NYSDEC Spills Redevelopment, 540 West 26th Street, New York, NY
NYSDEC Spills Redevelopment, 101 Murray Street, New York, NY
NYSDEC Spills Redevelopment, 110 University Place, New York, NY
NYSDEC Spills Redevelopment, Grant Park, Yonkers, NY
NYSDEC Spills Redevelopment, The Shops At Nanuet, Nanuet, NY
NYCOER E-Designation Remediation, 505 W 19th Street, New York, NY
NYCOER E-Designation Remediation, 53 West 53rd Street, New York, NY
NYCOER E-Designation Remediation, 525 West 52nd Street, New York, NY
NYCOER E-Designation Remediation, 412 Greenwich Street, New York, NY
NYCOER E-Designation Remediation, 508 West 24th Street, New York, NY
NYSDEC (Region 7) Site Remedial Investigation, Hillcrest, NY
Former Manufactured Gas Plant Site Remedial Investigation, Geneva, NY
NYSDEC (Region 2) Superfund Site Remedial Investigation, Jamaica, NY
NYSDEC (Region 5) Superfund Site Remedial Investigation, Whitehall, NY
Former Manufactured Gas Plant Site Investigation/Confidential Client, Mechanicville, NY
Remedial Investigation of Industrial Facility/Confidential Client, Batavia, NY
OGS Geotechnical Survey for Construction, Rome, NY

Education

B. A., Geology, State University of New York College at Potsdam
With Honors in Geology and Environmental Science

Professional Registration

Certified Hazardous Materials Manager (CHMM)

OSHA 29 CFR 1910.120 Certification for Hazardous Waste Operations and Emergency Response

OSHA Certification for Hazardous Waste Site Supervisor

Red Cross CPR & First Aid Training

LANGAN

Steven Ciambruschini, PG, LEP

Principal/Vice President

Environmental Site Assessments/Investigations, Brownfield Remediation, UST Management

33 years in the industry ~ 28 years with Langan

Mr. Ciambruschini has over 30 years of experience in hydrogeologic and environmental investigations including management of environmental and geotechnical investigations relating to petroleum and chlorinated solvent spill sites, underground storage tank sites, manufactured gas plant sites, landfills, wastewater treatment facilities and industrial/commercial sites. His experience includes managing environmental compliance audits, remedial investigation, pre-acquisition due diligence and permitting assessment, feasibility studies and design, construction and operation of complex innovative remediation systems to treat, contain and recover contaminated soil and groundwater. These projects are managed under various NJDEP, PADEP, NYDEC, NYCDEP and CTDEP programs. Mr. Ciambruschini provides consultation to a diverse group of clients including private developers, utilities, retail and industrial facilities and is expert in assessing remediation options and funding options under various state and federal grant, loan and tax reimbursement programs including Brownfield programs.

Selected Projects

- Brodson Property, Montville NJ, (RCRA, NJDEP ACO Cleanup)
- Carroll Gardens, Brooklyn, NY (NY Brownfield, EPA Superfund, OER E-designated Site)
- Con Edison Appendix B Spill Sites - Various Locations, NY
- Former MGP Site, Brooklyn, NY (VCP Site)
- Extell Development, Hudson Yards, New York, NY (NYC E-designated, NYS Brownfield Site)
- Pan Graphics, Bergen County, NJ (ISRA, LSRP)
- New Jersey Turnpike General Environmental Services Contract, Various Sites, NJ
- Liberty Science Center, Jersey City, NJ (EO 215)
- Blue Back Square, West Hartford, CT (UST, Transfer Act, Brownfield)
- Hershey, Act II Investigation (PA VCP)
- Hershey, Naugatuck, CT (CT Transfer Act)
- Halby Chemical Sites, Various Sites, DE (CERCLA)
- Unisys, Middletown CT, (CT Transfer Act, Brownfield)
- Ryder Rental, Various Sites in CT (CT Transfer Act)
- St. Marks Avenue, Brooklyn, NY (Vapor Mitigation)
- Pan Graphics, Lodi, NJ (Eco Risk Assessment, LSRP)

Education

M.S., Geology
Montclair State University

M.A., Environmental Science
Montclair University

B.S., Environmental Science
Cook College, Rutgers University

Professional Registration

Professional Geologist (PG) in NY, DE, KY

Licensed Environmental Professional (LEP) in CT

Underground Storage Tank License in NJ

Affiliations

National Ground Water Association

Association of Ground Water Scientists and Engineers

American Association of Petroleum Geologists

Environmental Professionals of Connecticut

American Bar Association (ABA)

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ATTACHMENT B

Laboratory Reporting Limits and Method Detection Limits

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Langan Engineering & Environmental

TCL Volatiles - EPA 8260C/5035 High&Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.811	ug/kg	54-140	30	54-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Langan Engineering & Environmental

TCL Volatiles - EPA 8260C/5035 High&Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.65	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	80	35.1	ug/kg	65-136	30	65-136	30	30			
1,4-Diethylbenzene	105-05-5	2	0.177	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	2	0.384	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.191	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
2-Chloroethoxyethane												
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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NYTCL Semivolatiles - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	133.6	17.3012	ug/kg	31-137	50	31-137	50	50			
1,2,4-Trichlorobenzene	120-82-1	167	19.1048	ug/kg	38-107	50	38-107	50	50			
Hexachlorobenzene	118-74-1	100.2	18.704	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethyl)ether	111-44-4	150.3	22.6452	ug/kg	40-140	50	40-140	50	50			
2-Chloronaphthalene	91-58-7	167	16.5664	ug/kg	40-140	50	40-140	50	50			
1,2-Dichlorobenzene	95-50-1	167	29.9932	ug/kg	40-140	50	40-140	50	50			
1,3-Dichlorobenzene	541-73-1	167	28.724	ug/kg	40-140	50	40-140	50	50			
1,4-Dichlorobenzene	106-46-7	167	29.1582	ug/kg	28-104	50	28-104	50	50			
3,3'-Dichlorobenzidine	91-94-1	167	44.422	ug/kg	40-140	50	40-140	50	50			
2,4-Dinitrotoluene	121-14-2	167	33.4	ug/kg	40-132	50	40-132	50	50			
2,6-Dinitrotoluene	606-20-2	167	28.6572	ug/kg	40-140	50	40-140	50	50			
Fluoranthene	206-44-0	100.2	19.1716	ug/kg	40-140	50	40-140	50	50			
4-Chlorophenyl phenyl ether	7005-72-3	167	17.869	ug/kg	40-140	50	40-140	50	50			
4-Bromophenyl phenyl ether	101-55-3	167	25.4842	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroisopropyl)ether	108-60-1	200.4	28.5236	ug/kg	40-140	50	40-140	50	50			
Bis(2-chloroethoxy)methane	111-91-1	180.36	16.7334	ug/kg	40-117	50	40-117	50	50			
Hexachlorobutadiene	87-68-3	167	24.4488	ug/kg	40-140	50	40-140	50	50			
Hexachlorocyclopentadiene	77-47-4	477.62	151.302	ug/kg	40-140	50	40-140	50	50			
Hexachloroethane	67-72-1	133.6	27.0206	ug/kg	40-140	50	40-140	50	50			
Isophorone	78-59-1	150.3	21.6766	ug/kg	40-140	50	40-140	50	50			
Naphthalene	91-20-3	167	20.3406	ug/kg	40-140	50	40-140	50	50			
Nitrobenzene	98-95-3	150.3	24.716	ug/kg	40-140	50	40-140	50	50			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	133.6	19.0046	ug/kg	36-157	50	36-157	50	50			
n-Nitrosodi-n-propylamine	621-64-7	167	25.7848	ug/kg	32-121	50	32-121	50	50			
Bis(2-Ethylhexyl)phthalate	117-81-7	167	57.782	ug/kg	40-140	50	40-140	50	50			
Butyl benzyl phthalate	85-68-7	167	42.084	ug/kg	40-140	50	40-140	50	50			
Di-n-butylphthalate	84-74-2	167	31.6632	ug/kg	40-140	50	40-140	50	50			
Di-n-octylphthalate	117-84-0	167	56.78	ug/kg	40-140	50	40-140	50	50			
Diethyl phthalate	84-66-2	167	15.4642	ug/kg	40-140	50	40-140	50	50			
Dimethyl phthalate	131-11-3	167	35.07	ug/kg	40-140	50	40-140	50	50			
Benzo(a)anthracene	56-55-3	100.2	18.8042	ug/kg	40-140	50	40-140	50	50			
Benzo(a)pyrene	50-32-8	133.6	40.748	ug/kg	40-140	50	40-140	50	50			
Benzo(b)fluoranthene	205-99-2	100.2	28.1228	ug/kg	40-140	50	40-140	50	50			
Benzo(k)fluoranthene	207-08-9	100.2	26.72	ug/kg	40-140	50	40-140	50	50			
Chrysene	218-01-9	100.2	17.368	ug/kg	40-140	50	40-140	50	50			
Acenaphthylene	208-96-8	133.6	25.7848	ug/kg	40-140	50	40-140	50	50			
Anthracene	120-12-7	100.2	32.565	ug/kg	40-140	50	40-140	50	50			
Benzo(ghi)perylene	191-24-2	133.6	19.6392	ug/kg	40-140	50	40-140	50	50			
Fluorene	86-73-7	167	16.2324	ug/kg	40-140	50	40-140	50	50			
Phenanthrene	85-01-8	100.2	20.3072	ug/kg	40-140	50	40-140	50	50			
Dibenzo(a,h)anthracene	53-70-3	100.2	19.3052	ug/kg	40-140	50	40-140	50	50			
Indeno(1,2,3-cd)Pyrene	193-39-5	133.6	23.2798	ug/kg	40-140	50	40-140	50	50			

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NYTCL Semivolatiles - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Pyrene	129-00-0	100.2	16.5998	ug/kg	35-142	50	35-142	50	50			
Biphenyl	92-52-4	380.76	38.744	ug/kg	37-127	50	37-127	50	50			
4-Chloroaniline	106-47-8	167	30.394	ug/kg	40-140	50	40-140	50	50			
2-Nitroaniline	88-74-4	167	32.1976	ug/kg	47-134	50	47-134	50	50			
3-Nitroaniline	99-09-2	167	31.4962	ug/kg	26-129	50	26-129	50	50			
4-Nitroaniline	100-01-6	167	69.138	ug/kg	41-125	50	41-125	50	50			
Dibenzofuran	132-64-9	167	15.7982	ug/kg	40-140	50	40-140	50	50			
2-Methylnaphthalene	91-57-6	200.4	20.1736	ug/kg	40-140	50	40-140	50	50			
Acetophenone	98-86-2	167	20.6746	ug/kg	14-144	50	14-144	50	50			
2,4,6-Trichlorophenol	88-06-2	100.2	31.6632	ug/kg	30-130	50	30-130	50	50			
P-Chloro-M-Cresol	59-50-7	167	24.883	ug/kg	26-103	50	26-103	50	50			
2-Chlorophenol	95-57-8	167	19.7394	ug/kg	25-102	50	25-102	50	50			
2,4-Dichlorophenol	120-83-2	150.3	26.8536	ug/kg	30-130	50	30-130	50	50			
2,4-Dimethylphenol	105-67-9	167	55.11	ug/kg	30-130	50	30-130	50	50			
2-Nitrophenol	88-75-5	360.72	62.792	ug/kg	30-130	50	30-130	50	50			
4-Nitrophenol	100-02-7	233.8	68.136	ug/kg	11-114	50	11-114	50	50			
2,4-Dinitrophenol	51-28-5	801.6	77.822	ug/kg	4-130	50	4-130	50	50			
4,6-Dinitro-o-cresol	534-52-1	434.2	80.16	ug/kg	10-130	50	10-130	50	50			
Pentachlorophenol	87-86-5	133.6	36.74	ug/kg	17-109	50	17-109	50	50			
Phenol	108-95-2	167	25.217	ug/kg	26-90	50	26-90	50	50			
2-Methylphenol	95-48-7	167	25.885	ug/kg	30-130.	50	30-130.	50	50			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	240.48	26.1522	ug/kg	30-130	50	30-130	50	50			
2,4,5-Trichlorophenol	95-95-4	167	31.9972	ug/kg	30-130	50	30-130	50	50			
Benzoic Acid	65-85-0	541.08	169.004	ug/kg	10-110	50	10-110	50	50			
Benzyl Alcohol	100-51-6	167	51.102	ug/kg	40-140	50	40-140	50	50			
Carbazole	86-74-8	167	16.2324	ug/kg	54-128	50	54-128	50	50			
1,4-Dioxane	123-91-1	25.05	7.682	ug/kg	40-140	50	40-140	50	50			
2-Fluorophenol	*367-12-4*									*25-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*30-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-136*		
4-Terphenyl-d14	*1718-51-0*									*18-120*		

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TCL Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	3.0015	1.28731	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	13.0065	5.30265	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Langan Engineering & Environmental

TCL PCBs - EPA 8082A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	33.5	2.9748	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	33.5	3.3567	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	33.5	7.102	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	33.5	4.5158	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	33.5	5.025	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	33.5	3.6649	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	33.5	6.1908	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	33.5	4.2545	ug/kg	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	33.5	3.4706	ug/kg	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	33.5	2.9748	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Herbicides -EPA 8151A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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NY PFAAs via LCMSMS-Isotope Dilution (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Plastic 8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	0.5	0.0227	ug/kg	71-135	30	71-135	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.5	0.046	ug/kg	69-132	30	69-132	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.5	0.039	ug/kg	72-128	30	72-128	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.5	0.0525	ug/kg	70-132	30	70-132	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.5	0.0451	ug/kg	71-131	30	71-131	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.5	0.0605	ug/kg	67-130	30	67-130	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	0.5	0.0419	ug/kg	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.5	0.1795	ug/kg	64-140	30	64-140	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.5	0.1365	ug/kg	70-132	30	70-132	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	0.5	0.075	ug/kg	72-129	30	72-129	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.5	0.13	ug/kg	68-136	30	68-136	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	0.5	0.067	ug/kg	69-133	30	69-133	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.5	0.287	ug/kg	65-137	30	65-137	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	0.5	0.2015	ug/kg	63-144	30	63-144	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.5	0.0468	ug/kg	64-136	30	64-136	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.5	0.153	ug/kg	59-134	30	59-134	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.5	0.098	ug/kg	67-137	30	67-137	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.5	0.0845	ug/kg	61-139	30	61-139	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.5	0.07	ug/kg	69-135	30	69-135	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.5	0.2045	ug/kg	66-139	30	66-139	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.5	0.054	ug/kg	69-133	30	69-133	30	30			
PFOA/PFOS, Total		0.5	0.0419	ug/kg				30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*60-153*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*65-182*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*70-151*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*61-147*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*62-149*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*63-166*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*62-152*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*32-182*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*61-154*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*65-151*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*65-150*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*25-186*		
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*45-137*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*64-158*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-125*		
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*42-136*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*56-148*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*26-160*		

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METALS by 6010D (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved

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METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	1 - Metals Only-Glass 60mL/2oz unpreserved

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Langan Engineering & Environmental

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chromium, Hexavalent	18540-29-9	0.8	0.16	mg/kg	80-120	20	75-125	20	20	7196A	30 days	1 - Glass 120ml/4oz unpreserved
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	9010C/9012B	14 days	1 - Glass 250ml/8oz unpreserved

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Langan Engineering & Environmental

NJ EPH Method (10/08, Rev3) -Category 1 (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Total EPH	NONE	24.012	24.012	mg/kg	40-140	25	40-140	50	50			
Chloro-Octadecane	*3386-33-2*									*40-140*		
o-Terphenyl	*84-15-1*									*40-140*		

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Langan Engineering & Environmental

New Jersey - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2-Dibromo-3-chloropropane	96-12-8	0.003	0.000396	mg/kg	40-160	30	40-160	30	30			
1,4-Dioxane	123-91-1	0.1	0.01442	mg/kg	40-160	30	40-160	30	30			
1,2-Dibromoethane	106-93-4	0.003	0.0001744	mg/kg	70-130	30	70-130	30	30			
Methylene chloride	75-09-2	0.005	0.001104	mg/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	0.0015	0.0000856	mg/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	0.0015	0.00037	mg/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	0.001	0.00021	mg/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	0.0035	0.000228	mg/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	0.001	0.0001536	mg/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	0.0015	0.000304	mg/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.001	0.0001402	mg/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.001	0.000348	mg/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	0.005	0.000388	mg/kg	40-160	30	40-160	30	30			
1,2-Dichloroethane	107-06-2	0.001	0.0001134	mg/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.001	0.0001108	mg/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.001	0.0001732	mg/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	0.001	0.0001208	mg/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.001	0.0001176	mg/kg	40-160	30	40-160	30	30			
1,3-Dichloropropene, Total	542-75-6	0.001	0.0001176	mg/kg				30	30			
Bromoform	75-25-2	0.004	0.000236	mg/kg	40-160	30	40-160	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.0001008	mg/kg	40-160	30	40-160	30	30			
Benzene	71-43-2	0.001	0.000118	mg/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	0.0015	0.0001948	mg/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	0.001	0.0001274	mg/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	0.005	0.000294	mg/kg	40-160	30	40-160	30	30			
Bromomethane	74-83-9	0.002	0.000338	mg/kg	40-160	30	40-160	30	30			
Vinyl chloride	75-01-4	0.002	0.0001174	mg/kg	70-130	30	70-130	30	30			
Chloroethane	75-00-3	0.002	0.000316	mg/kg	40-160	30	40-160	30	30			
1,1-Dichloroethene	75-35-4	0.001	0.000262	mg/kg	70-130	30	70-130	30	30			
trans-1,2-Dichloroethene	156-60-5	0.0015	0.000212	mg/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.001	0.000125	mg/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	0.005	0.0001532	mg/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	0.005	0.000135	mg/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	0.005	0.0001384	mg/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	0.002	0.0000844	mg/kg	70-130	30	70-130	30	30			
p/m-Xylene	179601-23-1	0.002	0.0001978	mg/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	0.002	0.0001718	mg/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	0.002	0.0001718	mg/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	0.001	0.0001428	mg/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	0.001	0.0001428	mg/kg				30	30			
Styrene	100-42-5	0.002	0.000402	mg/kg	40-160	30	40-160	30	30			
Dichlorodifluoromethane	75-71-8	0.01	0.0001908	mg/kg	40-160	30	40-160	30	30			

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New Jersey - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acetone	67-64-1	0.036	0.001036	mg/kg	40-160	30	40-160	30	30			
Carbon disulfide	75-15-0	0.01	0.001102	mg/kg	40-160	30	40-160	30	30			
2-Butanone	78-93-3	0.01	0.000272	mg/kg	40-160	30	40-160	30	30			
4-Methyl-2-pentanone	108-10-1	0.01	0.000244	mg/kg	40-160	30	40-160	30	30			
2-Hexanone	591-78-6	0.01	0.000666	mg/kg	40-160	30	40-160	30	30			
Bromochloromethane	74-97-5	0.005	0.000276	mg/kg	70-130	30	70-130	30	30			
Isopropylbenzene	98-82-8	0.001	0.0001038	mg/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	0.005	0.0001476	mg/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	0.005	0.0001818	mg/kg	70-130	30	70-130	30	30			
Methyl Acetate	79-20-9	0.004	0.00027	mg/kg	70-130	30	70-130	30	30			
Cyclohexane	110-82-7	0.02	0.000146	mg/kg	70-130	30	70-130	30	30			
Methyl cyclohexane	108-87-2	0.004	0.0001546	mg/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.02	0.000274	mg/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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New Jersey ABN Extractables - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	0.1332	0.0139194	mg/kg	70-130	30	70-130	30	30			
2-Chloronaphthalene	91-58-7	0.1665	0.0158508	mg/kg	70-130	30	70-130	30	30			
Hexachlorobenzene	118-74-1	0.047952	0.0158841	mg/kg	70-130	30	70-130	30	30			
Bis(2-chloroethyl)ether	111-44-4	0.05994	0.0200133	mg/kg	70-130	30	70-130	30	30			
3,3'-Dichlorobenzidine	91-94-1	0.127872	0.042624	mg/kg	70-130	30	70-130	30	30			
2,4-Dinitrotoluene	121-14-2	0.082917	0.027639	mg/kg	70-130	30	70-130	30	30			
2,6-Dinitrotoluene	606-20-2	0.065934	0.021978	mg/kg	70-130	30	70-130	30	30			
Fluoranthene	206-44-0	0.0999	0.0191142	mg/kg	70-130	30	70-130	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	0.1665	0.013986	mg/kg	70-130	30	70-130	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	0.1998	0.0191475	mg/kg	70-130	30	70-130	30	30			
Bis(2-chloroethoxy)methane	111-91-1	0.17982	0.0158175	mg/kg	70-130	30	70-130	30	30			
Hexachlorobutadiene	87-68-3	0.061938	0.0206793	mg/kg	70-130	30	70-130	30	30			
Hexachlorocyclopentadiene	77-47-4	0.47619	0.105228	mg/kg	20-160	30	20-160	30	30			
Hexachloroethane	67-72-1	0.080919	0.0269397	mg/kg	20-160	30	20-160	30	30			
Isophorone	78-59-1	0.055944	0.0186147	mg/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	0.1665	0.0202797	mg/kg	70-130	30	70-130	30	30			
Nitrobenzene	98-95-3	0.073926	0.024642	mg/kg	70-130	30	70-130	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	0.040959	0.0135531	mg/kg	70-130	30	70-130	30	30			
n-Nitrosodi-n-propylamine	621-64-7	0.041958	0.0139194	mg/kg	70-130	30	70-130	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	0.1665	0.0172827	mg/kg	70-130	30	70-130	30	30			
Butyl benzyl phthalate	85-68-7	0.1665	0.0221778	mg/kg	70-130	30	70-130	30	30			
Di-n-butylphthalate	84-74-2	0.1665	0.0147186	mg/kg	70-130	30	70-130	30	30			
Di-n-octylphthalate	117-84-0	0.1665	0.051948	mg/kg	70-130	30	70-130	30	30			
Diethyl phthalate	84-66-2	0.1665	0.0150849	mg/kg	70-130	30	70-130	30	30			
Dimethyl phthalate	131-11-3	0.1665	0.0159507	mg/kg	70-130	30	70-130	30	30			
Benzo(a)anthracene	56-55-3	0.055944	0.0187479	mg/kg	70-130	30	70-130	30	30			
Benzo(a)pyrene	50-32-8	0.121878	0.040626	mg/kg	70-130	30	70-130	30	30			
Benzo(b)fluoranthene	205-99-2	0.041958	0.0138861	mg/kg	70-130	30	70-130	30	30			
Benzo(k)fluoranthene	207-08-9	0.034965	0.011655	mg/kg	70-130	30	70-130	30	30			
Chrysene	218-01-9	0.0999	0.0171162	mg/kg	70-130	30	70-130	30	30			
Acenaphthylene	208-96-8	0.1332	0.018648	mg/kg	70-130	30	70-130	30	30			
Anthracene	120-12-7	0.0999	0.0148185	mg/kg	70-130	30	70-130	30	30			
Benzo(ghi)perylene	191-24-2	0.1332	0.0195804	mg/kg	70-130	30	70-130	30	30			
Fluorene	86-73-7	0.1665	0.0160173	mg/kg	70-130	30	70-130	30	30			
Phenanthrene	85-01-8	0.0999	0.0119547	mg/kg	70-130	30	70-130	30	30			
Dibenzo(a,h)anthracene	53-70-3	0.057942	0.0192474	mg/kg	70-130	30	70-130	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.06993	0.0232101	mg/kg	70-130	30	70-130	30	30			
Pyrene	129-00-0	0.0999	0.0144522	mg/kg	70-130	30	70-130	30	30			
4-Chloroaniline	106-47-8	0.1665	0.0191808	mg/kg	20-160	30	20-160	30	30			
2-Nitroaniline	88-74-4	0.1665	0.0305694	mg/kg	70-130	30	70-130	30	30			
3-Nitroaniline	99-09-2	0.1665	0.0314019	mg/kg	70-130	30	70-130	30	30			
4-Nitroaniline	100-01-6	0.1665	0.068931	mg/kg	70-130	30	70-130	30	30			

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New Jersey ABN Extractables - EPA 8270D (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzofuran	132-64-9	0.1665	0.0146853	mg/kg	70-130	30	70-130	30	30			
2-Methylnaphthalene	91-57-6	0.1998	0.0176157	mg/kg	70-130	30	70-130	30	30			
2,4,6-Trichlorophenol	88-06-2	0.094905	0.0315684	mg/kg	70-130	30	70-130	30	30			
P-Chloro-M-Cresol	59-50-7	0.1665	0.0248085	mg/kg	70-130	30	70-130	30	30			
2-Chlorophenol	95-57-8	0.054945	0.018315	mg/kg	70-130	30	70-130	30	30			
2,4-Dichlorophenol	120-83-2	0.07992	0.0267732	mg/kg	70-130	30	70-130	30	30			
2,4-Dimethylphenol	105-67-9	0.158841	0.052947	mg/kg	70-130	30	70-130	30	30			
2-Nitrophenol	88-75-5	0.35964	0.027306	mg/kg	70-130	30	70-130	30	30			
2,4-Dinitrophenol	51-28-5	0.23976	0.077589	mg/kg	20-160	30	20-160	30	30			
4,6-Dinitro-o-cresol	534-52-1	0.23976	0.07992	mg/kg	70-130	30	70-130	30	30			
Pentachlorophenol	87-86-5	0.10989	0.03663	mg/kg	20-160	30	20-160	30	30			
Phenol	108-95-2	0.1665	0.0197469	mg/kg	20-160	30	20-160	30	30			
2-Methylphenol	95-48-7	0.1665	0.0258075	mg/kg	70-130	30	70-130	30	30			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	0.23976	0.0240426	mg/kg	20-160	30	20-160	30	30			
2,4,5-Trichlorophenol	95-95-4	0.1665	0.0319014	mg/kg	70-130	30	70-130	30	30			
Carbazole	86-74-8	0.1665	0.0106227	mg/kg	70-130	30	70-130	30	30			
4-Nitrophenol	100-02-7	0.2331	0.046287	mg/kg	20-160	30	20-160	30	30			
4-Bromophenyl phenyl ether	101-55-3	0.1665	0.0185148	mg/kg	70-130	30	70-130	30	30			
Acetophenone	98-86-2	0.1665	0.0174159	mg/kg	70-130	30	70-130	30	30			
Biphenyl	92-52-4	0.37962	0.038628	mg/kg	70-130	30	70-130	30	30			
Atrazine	1912-24-9	0.1332	0.058275	mg/kg	70-130	30	70-130	30	30			
2-Fluorophenol	*367-12-4*									*30-130*		
Phenol-d6	*13127-88-3*									*30-130*		
Nitrobenzene-d5	*4165-60-0*									*30-130*		
2-Fluorobiphenyl	*321-60-8*									*30-130*		
2,4,6-Tribromophenol	*118-79-6*									*30-130*		
4-Terphenyl-d14	*1718-51-0*									*30-130*		

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NJ PCB - EPA 8082A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.0335	0.0029748	mg/kg	40-140	30	40-140	30	30			
Aroclor 1221	11104-28-2	0.0335	0.0033567	mg/kg	40-140	30	40-140	30	30			
Aroclor 1232	11141-16-5	0.0335	0.007102	mg/kg	40-140	30	40-140	30	30			
Aroclor 1242	53469-21-9	0.0335	0.0045158	mg/kg	40-140	30	40-140	30	30			
Aroclor 1248	12672-29-6	0.0335	0.005025	mg/kg	40-140	30	40-140	30	30			
Aroclor 1254	11097-69-1	0.0335	0.0036649	mg/kg	40-140	30	40-140	30	30			
Aroclor 1260	11096-82-5	0.0335	0.0061908	mg/kg	40-140	30	40-140	30	30			
Aroclor 1262	37324-23-5	0.0335	0.0042545	mg/kg	40-140	30	40-140	30	30			
Aroclor 1268	11100-14-4	0.0335	0.0034706	mg/kg	40-140	30	40-140	30	30			
PCBs, Total	1336-36-3	0.0335	0.0029748	mg/kg				30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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METALS by 6010D (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Arsenic, TCLP	7440-38-2	1	0.019	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Barium, TCLP	7440-39-3	0.5	0.021	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Cadmium, TCLP	7440-43-9	0.1	0.01	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Chromium, TCLP	7440-47-3	0.2	0.021	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Lead, TCLP	7439-92-1	0.5	0.027	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Selenium, TCLP	7782-49-2	0.5	0.035	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Silver, TCLP	7440-22-4	0.1	0.028	mg/l	75-125	20	75-125	20	20		180 days	1 - Glass 250ml/8oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only-Glass 60mL/2oz unpreserved

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METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	72-128		80-120	20	20		28 days	Metals Only-Glass 60mL/2oz unpreserved

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METALS by 7470A (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, TCLP	7439-97-6	0.000001	4.575E-07	mg/l	85-115		80-120	20	20		28 days	1 - Glass 250ml/8oz unpreserved

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NJ Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.0016008	0.00031349	mg/kg	40-140	30	30-150	30	30			
Lindane	58-89-9	0.000667	0.000298149	mg/kg	40-140	30	30-150	30	30			
Alpha-BHC	319-84-6	0.000667	0.000189428	mg/kg	40-140	30	30-150	30	30			
Beta-BHC	319-85-7	0.0016008	0.00060697	mg/kg	40-140	30	30-150	30	30			
Heptachlor	76-44-8	0.0008004	0.000358846	mg/kg	40-140	30	30-150	30	30			
Aldrin	309-00-2	0.0016008	0.000563615	mg/kg	40-140	30	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.0030015	0.00090045	mg/kg	40-140	30	30-150	30	30			
Endrin	72-20-8	0.000667	0.00027347	mg/kg	40-140	30	30-150	30	30			
Endrin aldehyde	7421-93-4	0.002001	0.00070035	mg/kg	40-140	30	30-150	30	30			
Endrin ketone	53494-70-5	0.0016008	0.000412206	mg/kg	40-140	30	30-150	30	30			
Dieldrin	60-57-1	0.0010005	0.00050025	mg/kg	40-140	30	30-150	30	30			
4,4'-DDE	72-55-9	0.0016008	0.000370185	mg/kg	40-140	30	30-150	30	30			
4,4'-DDD	72-54-8	0.0016008	0.000570952	mg/kg	40-140	30	30-150	30	30			
4,4'-DDT	50-29-3	0.0030015	0.00128731	mg/kg	40-140	30	30-150	30	30			
Endosulfan I	959-98-8	0.0016008	0.000378189	mg/kg	40-140	30	30-150	30	30			
Endosulfan II	33213-65-9	0.0016008	0.000534934	mg/kg	40-140	30	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.000667	0.000317492	mg/kg	40-140	30	30-150	30	30			
Methoxychlor	72-43-5	0.0030015	0.0009338	mg/kg	40-140	30	30-150	30	30			
Toxaphene	8001-35-2	0.030015	0.0084042	mg/kg	40-140	30	30-150	30	30			
Chlordane	57-74-9	0.01334	0.00530265	mg/kg	40-140	30	30-150	30	30			
cis-Chlordane	5103-71-9	0.002001	0.000557612	mg/kg	40-140	30	30-150	30	30			
trans-Chlordane	5103-74-2	0.002001	0.000528264	mg/kg	40-140	30	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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NJ Herbicides -EPA 8151A (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	0.1665	0.0104895	mg/kg	30-150	30	30-150	30	30			
2,4,5-T	93-76-5	0.1665	0.0051615	mg/kg	30-150	30	30-150	30	30			
2,4,5-TP (Silvex)	93-72-1	0.1665	0.0044289	mg/kg	30-150	30	30-150	30	30			
DCAA	*19719-28-9*									*30-150*		

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WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Reactive	57-12-5	10	10	mg/kg	30-125	40		40	40	7.3	14 days	1 - Glass 250ml/8oz unpreserved
Sulfide, Reactive	NONE	10	10	mg/kg	60-125	40		40	40	7.3	14 days	1 - Glass 250ml/8oz unpreserved
pH	12408-02-5	0		SU	99-101			5	5	9045D	24 hours	1 - Glass 250ml/8oz unpreserved
Chromium, Hexavalent	18540-29-9	0.8	0.16	mg/kg	80-120	20	75-125	20	20	7196A	30 days	1 - Glass 120ml/4oz unpreserved
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	9010C/9012B	14 days	1 - Glass 250ml/8oz unpreserved

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TCLP Volatile Organics - EPA 8260C/1311 (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloroform	67-66-3	7.5	2.22	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	5	1.34	ug/l	63-132	20	63-132	20	20			
Tetrachloroethene	127-18-4	5	1.81	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	5	1.78	ug/l	75-130	25	75-130	25	25			
1,2-Dichloroethane	107-06-2	5	1.32	ug/l	70-130	20	70-130	20	20			
Benzene	71-43-2	5	1.59	ug/l	70-130	25	70-130	25	25			
Vinyl chloride	75-01-4	10	0.714	ug/l	55-140	20	55-140	20	20			
1,1-Dichloroethene	75-35-4	5	1.69	ug/l	61-145	25	61-145	25	25			
Trichloroethene	79-01-6	5	1.75	ug/l	70-130	25	70-130	25	25			
1,4-Dichlorobenzene	106-46-7	25	1.87	ug/l	70-130	20	70-130	20	20			
2-Butanone	78-93-3	50	19.4	ug/l	63-138	20	63-138	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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TCLP ABN Compounds - EPA 8270D/1311 (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Hexachlorobenzene	118-74-1	10	2.895	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	25	4.225	ug/l	40-132	30	40-132	30	30			
Hexachlorobutadiene	87-68-3	10	3.585	ug/l	28-111	30	28-111	30	30			
Hexachloroethane	67-72-1	10	3.41	ug/l	21-105	30	21-105	30	30			
Nitrobenzene	98-95-3	10	3.765	ug/l	40-140	30	40-140	30	30			
2,4,6-Trichlorophenol	88-06-2	25	3.405	ug/l	30-130	30	30-130	30	30			
Pentachlorophenol	87-86-5	50	17.15	ug/l	9-103	30	9-103	30	30			
2-Methylphenol	95-48-7	25	5.1	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	25	5.55	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	25	3.575	ug/l	30-130	30	30-130	30	30			
Pyridine	110-86-1	17.5	9.35	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*33-120*		

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TCLP Pesticides - EPA 8081B/1311 (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Lindane	58-89-9	0.1	0.0217	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.1	0.0155	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.1	0.02075	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.2	0.02145	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	1	0.0342	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	1	0.3135	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	1	0.2315	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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TCLP Herbicides - EPA 8151A/1311 (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	0.025	0.001245	mg/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	0.005	0.0013475	mg/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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TCL Volatiles - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	1.5	0.5	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	2.5	0.7	ug/l	75-130	20	75-130	20	20			
Trichlorofluoromethane	75-69-4	2.5	0.7	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	2.5	0.7	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.65	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	20	70-130	20	20			
Toluene	108-88-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Ethylbenzene	100-41-4	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	2.5	0.7	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	2.5	0.7	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	20	61-145	20	20			
trans-1,2-Dichloroethene	156-60-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	20	70-130	20	20			
1,2-Dichlorobenzene	95-50-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	2.5	0.7	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	2.5	0.7	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	2.5	0.7	ug/l				20	20			
Dibromomethane	74-95-3	5	1	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Acrylonitrile	107-13-1	5	1.5	ug/l	70-130	20	70-130	20	20			
Styrene	100-42-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			

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TCL Volatiles - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	1	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	1	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	1	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	1	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	1	ug/l	57-130	20	57-130	20	20			
Bromochloromethane	74-97-5	2.5	0.7	ug/l	70-130	20	70-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.7	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.65	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	2.5	0.7	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	2.5	0.7	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.7	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	2.5	0.7	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	2.5	0.7	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.7	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	2.5	0.7	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.7	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
1,4-Diethylbenzene	105-05-5	2	0.7	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.7	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.7	ug/l	59-134	20	59-134	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.7	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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New Jersey ABN Extractables - EPA 8270D (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2.002	0.44408	ug/l	70-130	20	70-130	20	20			
3-Methylphenol/4-Methylphenol	108-39-4/106-44-5	5.0232	0.48048	ug/l	20-160	20	20-160	20	20			
Hexachlorobenzene	118-74-1	2.002	0.46592	ug/l	70-130	20	70-130	20	20			
Bis(2-chloroethyl)ether	111-44-4	2.002	0.50596	ug/l	70-130	20	70-130	20	20			
2-Chloronaphthalene	91-58-7	2.002	0.4368	ug/l	70-130	20	70-130	20	20			
2,4-Dinitrotoluene	121-14-2	5.0232	1.1648	ug/l	70-130	20	70-130	20	20			
2,6-Dinitrotoluene	606-20-2	5.0232	0.93184	ug/l	70-130	20	70-130	20	20			
Fluoranthene	206-44-0	2.002	0.257348	ug/l	70-130	20	70-130	20	20			
4-Chlorophenyl phenyl ether	7005-72-3	2.002	0.48776	ug/l	70-130	20	70-130	20	20			
Bis(2-chloroisopropyl)ether	108-60-1	2.002	0.5278	ug/l	70-130	20	70-130	20	20			
Bis(2-chloroethoxy)methane	111-91-1	5.0232	0.50232	ug/l	70-130	20	70-130	20	20			
Hexachlorobutadiene	87-68-3	2.002	0.65884	ug/l	70-130	20	70-130	20	20			
Hexachlorocyclopentadiene	77-47-4	20.02	0.68796	ug/l	20-160	20	20-160	20	20			
Hexachloroethane	67-72-1	2.002	0.58604	ug/l	20-160	20	20-160	20	20			
Isophorone	78-59-1	5.0232	1.20484	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.002	0.46592	ug/l	70-130	20	70-130	20	20			
Nitrobenzene	98-95-3	2.002	0.77168	ug/l	70-130	20	70-130	20	20			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2.002	0.4186	ug/l	70-130	20	70-130	20	20			
n-Nitrosodi-n-propylamine	621-64-7	5.0232	0.64428	ug/l	70-130	20	70-130	20	20			
Bis(2-Ethylhexyl)phthalate	117-81-7	3.003	1.53608	ug/l	70-130	20	70-130	20	20			
Butyl benzyl phthalate	85-68-7	5.0232	1.17208	ug/l	70-130	20	70-130	20	20			
Di-n-butylphthalate	84-74-2	5.0232	0.38948	ug/l	70-130	20	70-130	20	20			
Di-n-octylphthalate	117-84-0	5.0232	1.274	ug/l	70-130	20	70-130	20	20			
Diethyl phthalate	84-66-2	5.0232	0.3822	ug/l	70-130	20	70-130	20	20			
Dimethyl phthalate	131-11-3	5.0232	1.82	ug/l	70-130	20	70-130	20	20			
Benzo(a)anthracene	56-55-3	2.002	0.32578	ug/l	70-130	20	70-130	20	20			
Benzo(a)pyrene	50-32-8	2.002	0.40768	ug/l	70-130	20	70-130	20	20			
Benzo(b)fluoranthene	205-99-2	2.002	0.355264	ug/l	70-130	20	70-130	20	20			
Benzo(k)fluoranthene	207-08-9	2.002	0.37492	ug/l	70-130	20	70-130	20	20			
Chrysene	218-01-9	2.002	0.341068	ug/l	70-130	20	70-130	20	20			
Acenaphthylene	208-96-8	2.002	0.46592	ug/l	70-130	20	70-130	20	20			
Anthracene	120-12-7	2.002	0.32942	ug/l	70-130	20	70-130	20	20			
Benzo(ghi)perylene	191-24-2	2.002	0.296296	ug/l	70-130	20	70-130	20	20			
Fluorene	86-73-7	2.002	0.41496	ug/l	70-130	20	70-130	20	20			
Phenanthrene	85-01-8	2.002	0.33124	ug/l	70-130	20	70-130	20	20			
Dibenzo(a,h)anthracene	53-70-3	2.002	0.323232	ug/l	70-130	20	70-130	20	20			
Indeno(1,2,3-cd)Pyrene	193-39-5	2.002	0.39676	ug/l	70-130	20	70-130	20	20			
Pyrene	129-00-0	2.002	0.279552	ug/l	70-130	20	70-130	20	20			
4-Chloroaniline	106-47-8	5.0232	1.07016	ug/l	20-160	20	20-160	20	20			
2-Nitroaniline	88-74-4	5.0232	0.49868	ug/l	70-130	20	70-130	20	20			
3-Nitroaniline	99-09-2	5.0232	0.81536	ug/l	70-130	20	70-130	20	20			
4-Nitroaniline	100-01-6	5.0232	0.8008	ug/l	70-130	20	70-130	20	20			

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New Jersey ABN Extractables - EPA 8270D (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzofuran	132-64-9	2.002	0.49868	ug/l	70-130	20	70-130	20	20			
2-Methylnaphthalene	91-57-6	2.002	0.455	ug/l	70-130	20	70-130	20	20			
2,4,6-Trichlorophenol	88-06-2	5.0232	0.61152	ug/l	70-130	20	70-130	20	20			
P-Chloro-M-Cresol	59-50-7	2.002	0.35126	ug/l	70-130	20	70-130	20	20			
2-Chlorophenol	95-57-8	2.002	0.48048	ug/l	70-130	20	70-130	20	20			
2,4-Dichlorophenol	120-83-2	5.0232	0.41132	ug/l	70-130	20	70-130	20	20			
2,4-Dimethylphenol	105-67-9	5.0232	1.77996	ug/l	70-130	20	70-130	20	20			
2-Nitrophenol	88-75-5	10.01	0.84812	ug/l	70-130	20	70-130	20	20			
4-Nitrophenol	100-02-7	10.01	0.6734	ug/l	20-160	20	20-160	20	20			
2,4-Dinitrophenol	51-28-5	20.02	6.6612	ug/l	20-130	20	20-160	20	20			
4,6-Dinitro-o-cresol	534-52-1	10.01	1.81636	ug/l	70-130	20	70-130	20	20			
Pentachlorophenol	87-86-5	10.01	1.79452	ug/l	20-160	20	20-160	20	20			
Phenol	108-95-2	5.0232	0.56784	ug/l	20-160	20	20-160	20	20			
2-Methylphenol	95-48-7	5.0232	0.4914	ug/l	70-130	20	70-130	20	20			
2,4,5-Trichlorophenol	95-95-4	5.0232	0.77532	ug/l	70-130	20	70-130	20	20			
Carbazole	86-74-8	2.002	0.4914	ug/l	70-130	20	70-130	20	20			
4-Bromophenyl phenyl ether	101-55-3	2.002	0.37856	ug/l	70-130	20	70-130	20	20			
3,3'-Dichlorobenzidine	91-94-1	5.0232	1.62344	ug/l	70-130	20	70-130	20	20			
Acetophenone	98-86-2	5.0232	0.5278	ug/l	70-130	20	70-130	20	20			
Biphenyl	92-52-4	2.002	0.45864	ug/l	70-130	20	70-130	20	20			
2-Fluorophenol	*367-12-4*									*15-110*		
Phenol-d6	*13127-88-3*									*15-110*		
Nitrobenzene-d5	*4165-60-0*									*30-130*		
2-Fluorobiphenyl	*321-60-8*									*30-130*		
2,4,6-Tribromophenol	*118-79-6*									*15-110*		
4-Terphenyl-d14	*1718-51-0*									*30-130*		

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NJ - EPA 8270D-SIM Low Level (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
4,6-Dinitro-o-cresol	534-52-1	0.70252	0.09327136	ug/l	70-130	20	70-130	20	20			
Benzo(a)anthracene	56-55-3	0.1001	0.0198198	ug/l	70-130	20	70-130	20	20			
Benzo(a)pyrene	50-32-8	0.1001	0.01493856	ug/l	70-130	20	70-130	20	20			
Benzo(b)fluoranthene	205-99-2	0.1001	0.01156792	ug/l	70-130	20	70-130	20	20			
Benzo(k)fluoranthene	207-08-9	0.1001	0.00889616	ug/l	70-130	20	70-130	20	20			
Dibenzo(a,h)anthracene	53-70-3	0.1001	0.0127218	ug/l	70-130	20	70-130	20	20			
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1001	0.01217216	ug/l	70-130	20	70-130	20	20			
Hexachlorobenzene	118-74-1	0.02002	0.00938028	ug/l	70-130	20	70-130	20	20			
Pentachlorophenol	87-86-5	0.3003	0.0143416	ug/l	20-160	20	20-160	20	20			
Hexachlorobutadiene	87-68-3	1.001	0.04674852	ug/l	70-130	20	70-130	20	20			
2-Fluorophenol	*367-12-4*									*15-110*		
Phenol-d6	*13127-88-3*									*15-110*		
Nitrobenzene-d5	*4165-60-0*									*30-130*		
2-Fluorobiphenyl	*321-60-8*									*30-130*		
2,4,6-Tribromophenol	*118-79-6*									*15-110*		
4-Terphenyl-d14	*1718-51-0*									*30-130*		

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1,4 Dioxane via EPA 8270D-SIM (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 250ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dioxane	123-91-1	150	33.9	ng/l	40-140	30	40-140	30	30			
1,4-Dioxane-d8	*17647-74-4*									*15-110*		
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l								

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TCL Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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TCL PCBs - EPA 8082A (LVI) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 120ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.082824	0.0344148	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.082824	0.0664734	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.082824	0.0455532	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.082824	0.0387702	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.082824	0.048909	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.082824	0.0390558	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.082824	0.0320586	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.082824	0.0347718	ug/l	40-140	50	40-140	50	50			
Aroclor 1268	11100-14-4	0.082824	0.0334866	ug/l	40-140	50	40-140	50	50			
PCBs, Total	1336-36-3	0.082824	0.0320586	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

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Herbicides -EPA 8151A (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
2,4-D	94-75-7	10	0.498	ug/l	30-150	25	30-150	25	25			
2,4,5-T	93-76-5	2	0.531	ug/l	30-150	25	30-150	25	25			
2,4,5-TP (Silvex)	93-72-1	2	0.539	ug/l	30-150	25	30-150	25	25			
DCAA	*19719-28-9*									*30-150*		

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NY PFAAs via LCMSMS-Isotope Dilution (WATER)

Holding Time: 14 days
Container/Sample Preservation: 1 - 2 Plastic/1 Plastic/1 H20 Plastic

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Perfluorobutanoic Acid (PFBA)	375-22-4	2	0.408	ng/l	67-148	30	67-148	30	30			
Perfluoropentanoic Acid (PFPeA)	2706-90-3	2	0.396	ng/l	63-161	30	63-161	30	30			
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	2	0.238	ng/l	65-157	30	65-157	30	30			
Perfluorohexanoic Acid (PFHxA)	307-24-4	2	0.328	ng/l	69-168	30	69-168	30	30			
Perfluoroheptanoic Acid (PFHpA)	375-85-9	2	0.2252	ng/l	58-159	30	58-159	30	30			
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	2	0.376	ng/l	69-177	30	69-177	30	30			
Perfluorooctanoic Acid (PFOA)	335-67-1	2	0.236	ng/l	63-159	30	63-159	30	30			
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	2	1.332	ng/l	49-187	30	49-187	30	30			
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	2	0.688	ng/l	61-179	30	61-179	30	30			
Perfluorononanoic Acid (PFNA)	375-95-1	2	0.312	ng/l	68-171	30	68-171	30	30			
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	2	0.504	ng/l	52-151	30	52-151	30	30			
Perfluorodecanoic Acid (PFDA)	335-76-2	2	0.304	ng/l	63-171	30	63-171	30	30			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	2	1.212	ng/l	56-173	30	56-173	30	30			
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSA	2355-31-9	2	0.648	ng/l	60-166	30	60-166	30	30			
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	2	0.26	ng/l	60-153	30	60-153	30	30			
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	2	0.98	ng/l	38-156	30	38-156	30	30			
Perfluorooctanesulfonamide (FOSA)	754-91-6	2	0.58	ng/l	46-170	30	46-170	30	30			
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	2	0.804	ng/l	45-170	30	45-170	30	30			
Perfluorododecanoic Acid (PFDoA)	307-55-1	2	0.372	ng/l	67-153	30	67-153	30	30			
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	2	0.3272	ng/l	48-158	30	48-158	30	30			
Perfluorotetradecanoic Acid (PFTA)	376-06-7	2	0.248	ng/l	59-182	30	59-182	30	30			
PFOA/PFOS, Total		2	0.236	ng/l				30	30			
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*2-156*		
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*16-173*		
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*31-159*		
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*21-145*		
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*30-139*		
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*47-153*		
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*36-149*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6	*NONE*									*1-244*		
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*34-146*		
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*42-146*		
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*38-144*		
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8	*NONE*									*7-170*		
N-Deuteriomethyl perfluoro-1-octanesulfonamidoacetic Acid	*NONE*									*1-181*		
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-144*		
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*1-87*		
N-Deuterioethyl perfluoro-1-octanesulfonamidoacetic Acid (d	*NONE*									*23-146*		
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*24-161*		
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*33-143*		

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METALS by 6020B (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium, Total	7440-23-5	0.1	0.0293	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

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METALS by 7470A (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

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WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Chromium, Hexavalent	18540-29-9	0.01	0.003	mg/l	85-115	20	85-115	20	20	7196A	24 hours	1 - Plastic 500ml unpreserved
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	85-115	20	80-120	20	20	9010C/9012B	14 days	1 - Plastic 250ml NaOH preserved

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Volatile Organics in Air: TO-15 (SOIL_VAPOR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0501	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0614	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.067	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0628	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0643	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0674	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0368	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0604	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0561	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0628	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0602	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.061	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0675	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.067	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0627	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0636	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0805	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0361	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0482	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0648	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0524	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0393	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0585	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0407	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.037	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.689	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0487	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0482	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.077	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0504	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0641	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0773	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0559	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0499	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0624	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0805	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0633	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0689	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.117	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0409	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0368	ppbV	70-130			25	25			

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Volatile Organics in Air: TO-15 (SOIL_VAPOR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0614	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0583	ppbV	70-130			25	25			
Ethyl Alcohol	64-17-5	5	0.733	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.122	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0432	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0656	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0591	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0529	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.478	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.134	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0421	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0525	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.0697	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.091	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0453	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0453	ppbV				25	25			
Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0364	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0599	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0434	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0655	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0389	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0568	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.052	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0643	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0643	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0436	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0409	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0505	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0686	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0479	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0717	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0627	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0885	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0364	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.052	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.132	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0555	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.0596	ppbV	70-130			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0561	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0491	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Langan Engineering & Environmental

Volatile Organics in Air: TO-15 (SOIL_VAPOR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.061	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.082	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0613	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0584	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0807	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0563	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0659	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0445	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0476	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0486	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.056	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0458	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0457	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0621	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0422	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0715	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0737	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.044	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0429	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.042	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0495	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.052	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0419	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.106	ppbV	70-130			25	25			
Methanol	67-56-1	5	1.84	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.444	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0646	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0463	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0404	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0427	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0507	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0433	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.466	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0658	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.126	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0466	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.393	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
Bromofluorobenzene	*460-00-4*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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ATTACHMENT C

Analytical Methods / Quality Assurance Summary Table

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ATTACHMENT C
ANALYTICAL METHODS/QUALITY ASSURANCE SUMMARY TABLE

Matrix Type	Field Parameters	Laboratory Parameters	Analytical Methods	Sample Preservation	Sample Container Volume and Type	Sample Hold Time	Number of Samples to be Collected	Field Duplicate Samples	Equipment Blank Samples	Trip Blank Samples	Ambient Air Samples	MS/MSD Samples
Soil	Total VOCs via PID	Part 375 + TCL VOCs / CP-51 VOCs	EPA 8260C	Cool to 4°C	Two 40-ml VOC vials with 5ml H_2O, one with MeOH or 3 Encore Samplers (separate container for % solids)	14 days, freeze at lab within 48 hours	21	1 per 20 samples (minimum 1)	1 per 20 samples, if needed (minimum 1, if needed)	1 per shipment of VOC samples	NA	1 per 20 samples (minimum 1)
		Part 375 + TCL SVOCs / CP-51 SVOCs	EPA 8270D	Cool to 4°C	4 oz. jar*	14 days extract, 40 days after extraction to analysis						
		1,4-Dioxane	EPA 8270D	Cool to 4°C	8 oz. jar	14 days extract, 40 days after extraction to analysis						
		Part 375 + TAL Metals	EPA 6010C, EPA 7470, EPA 7196A, EPA 9014/9010C	Cool to 4°C	2 oz. jar*	6 months, except Mercury 28 days						
		Hexavalent Chromium	EPA 7196A	Cool to 4°C	2 oz. jar*	28 days						
		Perfluoroalkyl Substances (PFAs)	EPA 537 (Modified)	Cool to 4°C	1/2 filled 250mL HDPE container	14 days extract, 40 days after extraction to analysis						
		Part 375 + TCL Herbicides	EPA 8151A	Cool to 4°C	4 oz. jar*	14 days extract, 40 days after extraction to analysis						
		Part 375 + TCL Pesticides	EPA 8081B	Cool to 4°C	4 oz. jar*	14 days extract, 40 days after extraction to analysis						
		Part 375 + TCL PCBs	EPA 8082A	Cool to 4°C	4 oz. jar*	14 days extract, 40 days after extraction to analysis						
Groundwater	Headspace VOCs via PID, synoptic groundwater level measurement, Temperature, Turbidity, pH, ORP, Conductivity	Part 375 + TCL VOCs	EPA 8260C	Cool to 4°C; HCl to pH <2;no headspace	Three 40-mL VOC vials with Teflon®-lined cap	14 days	6	1 per 20 samples (minimum 1)	1 per 20 samples, if needed (minimum 1, if needed)	1 per shipment of VOC samples	NA	1 per 20 samples (minimum 1)
		Part 375 + TCL SVOCs / CP-51 SVOCs	EPA 8270D	Cool to 4°C	Two 1-Liter Amber Glass	7 days to extract, 40 days after extraction to analysis						
		1,4-Dioxane	EPA 8270D SIM	Cool to 4°C	1-L Amber Glass	7 days to extract, 40 days after extraction to analysis						
		Part 375 + TAL Metals	EPA 6010C, EPA 7470, EPA 7196A, EPA 9014/9010C	Cool to 4°C	Two 1-Liter Amber Glass	6 months, except Mercury 28 days						
		Hexavalent Chromium	EPA 7196A	Cool to 4°C	250 mL Plastic	24 hours						
		Perfluoroalkyl Substances (PFAs)	EPA 537 (Modified)	Cool to 4°C	Two 250mL HDPE containers	14 days extract, 40 days after extraction to analysis						
		Part 375 + TCL Herbicides	EPA 8151A	Cool to 4°C	Two 1-Liter Amber Glass	7 days to extraction, 40 days after extraction to analysis						
		Part 375 + TCL Pesticides	EPA 8081B	Cool to 4°C	Two 1-Liter Amber Glass	7 days extract, 40 days after extraction to analysis						
		Part 375 + TCL PCBs	EPA 8082A	Cool to 4°C	Two 1-Liter Amber Glass	7 days extract, 40 days after extraction to analysis						
Soil Vapor	Total VOCs via PID	Part 375 + TCL VOCs	EPA TO-15	NA	6L Summa Cannister	30 days	15	1 per 20 samples (minimum 1)	NA	NA	1 per day	NA

Notes:
*can be combined in one or more 8 oz. jars
mL = milliliter
VOC = Volatile organic compound
SVOC = Semi-volatile organic compound
PCB = Polychlorinated biphenyls
TAL = Total Analyte List
TCL = Target Criteria List

PID = Photoionization detector
Part 375 = New York State Department of Environmental Conservation (NYSDEC) Title 6 New York City Rules and Regulation (NYCRR) Part 375 List.
ORP = Oxidation reduction potential
EPA = U.S. Environmental Protection Agency
NA = Not applicable
ºC = degree Celsius

The PFAS compounds to be analyzed includes: perfluorobutanesulfonic acid, perfluorohexanesulfonic acid, perfluoroheptanesulfonic acid, perfluorooctanessulfonic acid, perfluorodecanesulfonic acid, perfluorobutanoic acid, perfluoropentanoic acid, perfluorohexanoic acid, perfluoroheptanoic acid, perfluorooctanoic acid, perfluorononanoic acid, perfluorodecanoic acid, perfluoroundecanoic acid, perfluorododecanoic acid, perfluorotridecanoic acid, perfluorotetradecanoic acid, 6:2 fluorotelomer sulfonate, 8:2 fluorotelomer sulfonate, perfluroroctanesulfonamide, n-methyl perfluorooctanesulfonamidoacetic acid, and n-ethyl perfluorooctanesulfonamidoacetic acid.

ATTACHMENT D

Sample Nomenclature

SAMPLE NOMENCLATURE

The sample nomenclature outlined below provides consistency between sample events and projects but, most importantly, establish unique sample IDs that will avoid confusion months or years after the sample has been collected. Furthermore, unique sample IDs are required for any data submitted to the NYSDEC in EDD format or being uploaded to an EQuIS database.

1.0 INVESTIGATION LOCATION CODES

SB	Soil Boring	SV	Soil Vapor Point
WC	Waste Characterization Boring	IA	Indoor Air
TP	Test Pit	AA	Ambient Air
EPSW	Endpoint Location (Sidewall)	SVE	Vapor Extraction Well
EPB	Endpoint Location (Bottom)	DS	Drum
MW	Monitoring Well	IDW	Investigation Derived Waste
TMW	Temporary Monitoring Well	SL	Sludge
SW	Surface Water	FP	Free Product

2.0 SAMPLE NOMENCLATURE

Each sample at a site must have a unique value.

- **Soil/Sediment Samples:**

SBxx_y-y

Sample Location Code + Number (two digits minimum)

Sampling Interval (y-y)

Sample Type	Sample Location Code	Sampling Depth or Interval (feet bgs or approx. elevation)	Sample Name
Phase II/Remedial Investigation			
Grab Soil Sample	SB01	2 to 4	SB01_2-4
	SB02	4	SB02_4
Waste Characterization			
Grab Soil Sample	WC01	2 to 4	WC01_2-4
	WC02	4	WC02_4
Composite Soil Sample from one or more locations	COMP01 or COMP02 + COMP03	0 to 10 (Fill)	COMP01_0-10

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Sample Type	Sample Location Code	Sampling Depth or Interval (feet bgs or approx. elevation)	Sample Name
Endpoint Sampling			
Grab Soil Sample	EPSW01_N	5	EPSW01_N_5
	EPSW01_S	5	EPSW01_S_5
	EPSW01_E	5	EPSW01_E_5
	EPSW01_W	5	EPSW01_W_5
	EPB01	6	EPB01_6

- **Groundwater/Surface Water Samples:**

MWxx_MMDDYY

Sample Location Code + Number (two digits minimum)

Sampling Date (MMDDYY)

Sample Type	Sample Location Code	Sampling Date	Sample Name
Groundwater Sample	MW01	02/21/2013	MW01_022113

- **Air/Soil Vapor Samples:**

IAxx_MMDDYY

Sample Location Code + Number (two digits minimum)

Sampling Date (MMDDYY)

Sample Type	Sample Location Code	Date	Sample Name
Air Sample	IA01	02/21/2013	IA01_022113
Soil Vapor Sample	SV01	02/21/2013	SV01_022113
Vapor Extraction Well Sample	SVE01 (INLET/MIDPOINT/OUTLET)	02/21/2013	SVE01_IN_022113 SVE01_ MID_022113 SVE01_ OUT_022113

- **QA/QC Samples:**

Sample Matrix Codes

SO	Soil	AS	Air
SE	Sediment	SV	Soil Vapor
GW	Groundwater	SL	Sludge
SW	Surface Water	FP	Free Product

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- Duplicates Samples

SODUPxx_MMDDYY

Sample Matrix Code — Sample Type + Number (two digits minimum) — Sampling Date (MMDDYY)

Sample Type	Parent Sample Code	Date	Sample Name
Groundwater Duplicate Sample (DUP)	MW01_022113	02/21/2013	GWDUP01_022113
Soil boring Duplicate Sample (DUP)	SBP01_022113	02/21/2013	SODUP01_022113
Grab Waste Characterization	WC01	02/21/2013	WCDUP01_022113
Composite Waste Characterization	COMP01	02/21/2013	COMPDUP01_022113

- Field Blanks and Trip Blanks

SBFBxx_MMDDYY

Sample Matrix Code — Sample Type + Number (two digits minimum) — Sampling Date (MMDDYY)

Sample Type	Date	Sample Name
Groundwater Field Blank (FB)	02/21/2013	GWFB01_022113
Groundwater Trip Blank (TB)	02/21/2013	GWTB01_022113
Soil Field Blank	02/21/2013	SOFB01_022113
Soil Trip Blank	02/21/2013	SOTB01_022113

- Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Parent Sample Name_MS or MSD

Sample Type	Sample Location	Parent Sample Name	Sample Name
Matrix Spike Soil (MS)	SB01	SB01_2-4	SB01_2-4_MS
Matrix Spike Soil Duplicate (MSD)	SB01	SB01_2-4	SB01_2-4_MSD
Matrix Spike GW (MS)	MW01	MW01	MW01_MS
Matrix Spike GW Duplicate (MSD)	MW01	MW01	MW01_MSD

3.0 NOTES

1. The sample location code should not exceed 20 characters and the sample name should not exceed 40 characters.
2. Sample location code (**SB01, MW01, etc.)** is a sequential number (starting with 01) and should be a minimum of two digits.
3. Sample Interval (SB01_**0-5**) is separated from the sample location code with an underscore, and the top and bottom interval with a dash. Soil and sediment sample intervals should always be in

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feet. Soil and sediment sample intervals should contain no "/" or "()" or unit.

4. Sample date (MW01_**022113**) is separated from the sample location code with an underscore and should be provided in MMDDYY format [the date should contain no "/" or "-"].
5. If groundwater samples are collected from multiple intervals within one well, you may assign a letter designation (in lower case) to the well ID to differentiate between intervals (i.e., MW01a_022113, MW01b_022113, and MW01c_022113). The letter "a" would indicate the shallowest interval and "c" the deepest. The actual depth intervals should be documented in the project field book or field sheets and the letter designations should be used consistently between sampling events.
6. According to USEPA's Contract Laboratory Program (CLP) Guidance for Field Samplers (January 2011), field duplicate samples should remain "blind" to the laboratory (i.e., they should have separate CLP Sample numbers). Assign two separate (unique) CLP sample numbers (i.e., one number to the field sample and one to the duplicate). Submit blind to the laboratory. (http://www.epa.gov/superfund/programs/clp/download/sampler/CLPSamp-01-2011.pdf)

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ATTACHMENT E

Laboratory Standard Operating Procedures for PFAS Analysis

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Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (LC/MS/MS)

Reference: EPA Method 537, Version 1.1, September 2009, EPA Document #: EPA/600/R-08/09

EPA Method 537.1, Version 1, November 2018, EPA Document #: EPA/600/R-18/352

Department of Defense, Quality Systems Manual for Environmental Laboratories, Version 5.2, .2019

1. Scope and Application

Matrices: Drinking water, Non-potable Water, and Soil Matrices

Definitions: Refer to Alpha Analytical Quality Manual.

1.1 This is a liquid chromatography/tandem mass spectrometry (LC/MS/MS) method for the determination of selected perfluorinated alkyl substances (PFAS) in Non-Drinking Water and soil Matrices. Accuracy and precision data have been generated in reagent water, and finished ground and surface waters for the compounds listed in Table 1.

1.2 The data report packages present the documentation of any method modification related to the samples tested. Depending upon the nature of the modification and the extent of intended use, the laboratory may be required to demonstrate that the modifications will produce equivalent results for the matrix. Approval of all method modifications is by one or more of the following laboratory personnel before performing the modification: Area Supervisor, Department Supervisor, Laboratory Director, or Quality Assurance Officer.

1.3 This method is restricted to use by or under the supervision of analysts experienced in the operation of the LC/MS/MS and in the interpretation of LC/MS/MS data. Each analyst must demonstrate the ability to generate acceptable results with this method by performing an initial demonstration of capability.

2. Summary of Method

2.1 A 250-mL water sample is fortified with extracted internal standards (EIS) and passed through a solid phase extraction (WAX) cartridge containing a mixed mode, Weak Anion Exchange, reversed phase, water-wettable polymer to extract the method analytes and isotopically-labeled compounds. The compounds are eluted from the solid phase in two fractions with methanol followed by a small amount of 2% ammonium hydroxide in methanol solution. The extract is concentrated with nitrogen in a heated water bath, and then adjusted to a 1-mL volume with 80:20% (vol/vol) methanol:water. A 3 µl injection is made into an LC equipped with a C18 column that is interfaced to an MS/MS. The analytes are separated and identified by comparing the acquired mass spectra and retention times to reference spectra and retention times for calibration standards acquired under identical LC/MS/MS conditions. The concentration of each analyte is determined by using the isotope dilution technique. Extracted Internal Standards (EIS) analytes are used to monitor the extraction efficiency of the method analytes.

2.2 Method Modifications from Reference

None.

Table 1

Parameter	Acronym	CAS
PERFLUOROALKYL ETHER CARBOXYLIC ACIDS (PFECAs)		
Tetrafluoro-2-(heptafluoropropoxy)propanoic acid	HFPO-DA	62037-80-3
4,8-dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
PERFLUOROALKYLCARBOXILIC ACIDS (PFCAs)		
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA *	307-24-4
Perfluoroheptanoic acid	PFHpA *	375-85-9
Perfluorooctanoic acid	PFOA *	335-67-1
Perfluorononanoic acid	PFNA *	375-95-1
Perfluorodecanoic acid	PFDA *	335-76-2
Perfluoroundecanoic acid	PFUnA *	2058-94-8
Perfluorododecanoic acid	PFDoA *	307-55-1
Perfluorotridecanoic acid	PFTrDA *	72629-94-8
Perfluorotetradecanoic acid	PFTA *	376-06-7
Perfluorohexadecanoic acid	PFHxDA	67905-19-5
Perfluorooctadecanoic acid	PFODA	16517-11-6
PERFLUOROALKYLSULFONATES (PFASs)		
Perfluorobutanesulfonic acid	PFBS *	375-73-5
Perfluoropentanesulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS *	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS *	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5

*** also reportable via the standard 537 method**

Table 1 Cont.

Parameter	Acronym	CAS
CHLORO-PERFLUOROALKYLSULFONATE		
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
PERFLUOROOCTANESULFONAMIDES (FOSAs)		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methylperfluoro-1-octanesulfonamide	NMeFOSA	31506-32-8
N-ethylperfluoro-1-octanesulfonamide	NEtFOSA	4151-50-2
TELOMER SULFONATES		
1H,1H,2H,2H-perfluorohexane sulfonate (4:2)	4:2FTS	27619-93-8
1H,1H,2H,2H-perfluorooctane sulfonate (6:2)	6:2FTS	27619-97-2
1H,1H,2H,2H-perfluorodecane sulfonate (8:2)	8:2FTS	39108-34-4
1H,1H,2H,2H-perfluorododecane sulfonate (10:2)	10:2FTS	120226-60-0
PERFLUOROOCTANESULFONAMIDOACETIC ACIDS		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA *	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA *	2991-50-6
NATIVE PERFLUOROOCTANESULFONAMIDOETHANOLS (FOSEs)		
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	NMeFOSE	24448-09-7
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	NEtFOSE	1691-99-2

*** also reportable via the standard 537 method**

3. Reporting Limits

The reporting limit for PFAS's is 2 ng/L for aqueous samples (20 ng/L for HFPO-DA) and 1 ng/g (10 ng/g for HFPO-DA) for soil samples.

4. Interferences

4.1 PFAS standards, extracts and samples should not come in contact with any glass containers or pipettes as these analytes can potentially adsorb to glass surfaces. PFAS analyte and EIS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including reagent water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. The method analytes in this method can also be found in many common laboratory supplies and equipment, such

as PTFE (polytetrafluoroethylene) products, LC solvent lines, methanol, aluminum foil, SPE sample transfer lines, etc. All items such as these must be routinely demonstrated to be free from interferences (less than 1/3 the RL for each method analyte) under the conditions of the analysis by analyzing laboratory reagent blanks as described in Section 9.2. **Subtracting blank values from sample results is not permitted.**

4.3 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the water. Humic and/or fulvic material can be co-extracted during SPE and high levels can cause enhancement and/or suppression in the electrospray ionization source or low recoveries on the SPE sorbent. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.4 SPE cartridges can be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. Brands and lots of SPE devices should be tested to ensure that contamination does not preclude analyte identification and quantitation.

5. Health and Safety

5.1 The toxicity or carcinogenicity of each reagent and standard used in this method is not fully established; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. A reference file of material safety data sheets is available to all personnel involved in the chemical analysis. Additional references to laboratory safety are available in the Chemical Hygiene Plan.

5.2 All personnel handling environmental samples known to contain or to have been in contact with municipal waste must follow safety practices for handling known disease causative agents.

5.3 PFOA has been described as “likely to be carcinogenic to humans.” Pure standard materials and stock standard solutions of these method analytes should be handled with suitable protection to skin and eyes, and care should be taken not to breathe the vapors or ingest the materials.

6. Sample Collection, Preservation, Shipping and Handling

6.1 Sample Collection for Aqueous Samples

6.1.1 Samples must be collected in two (2) 250-mL high density polyethylene (HDPE) container with an unlined plastic screw cap.

6.1.2 The sample handler must wash their hands before sampling and wear nitrile gloves while filling and sealing the sample bottles. PFAS contamination during sampling can occur from a number of common sources, such as food packaging and certain foods and beverages. Proper hand washing and wearing nitrile gloves will aid in minimizing this type of accidental contamination of the samples.

6.1.3 Open the tap and allow the system to flush until the water temperature has stabilized (approximately 3 to 5 min). Collect samples from the flowing system.

6.1.4 Fill sample bottles. Samples do not need to be collected headspace free.

6.1.5 After collecting the sample and cap the bottle. Keep the sample sealed from time of collection until extraction.

6.1.6 Field Reagent Blank (FRB)

6.1.6.1 A FRB must be handled along with each sample set. The sample set is composed of samples collected from the same sample site and at the same time. At the laboratory, fill the field blank sample bottle with reagent water and preservatives, seal, and ship to the sampling site along with the sample bottles. For each FRB shipped, an empty sample bottle (no preservatives) must also be shipped. At the sampling site, the sampler must open the shipped FRB and pour the reagent water into the empty shipped sample bottle, seal and label this bottle as the FRB. The FRB is shipped back to the laboratory along with the samples and analyzed to ensure that PFAS's were not introduced into the sample during sample collection/handling.

The reagent water used for the FRBs must be initially analyzed for method analytes as a MB and must meet the MB criteria in Section 9.2.1 prior to use. This requirement will ensure samples are not being discarded due to contaminated reagent water rather than contamination during sampling.

6.2 Sample Collection for Soil and Sediment samples.

Grab samples are collected in polypropylene containers. Sample containers and contact surfaces containing PTFE shall be avoided.

6.3 Sample Preservation

Not applicable.

6.4 Sample Shipping

Samples must be chilled during shipment and must not exceed 10 °C during the first 48 hours after collection. Sample temperature must be confirmed to be at or below 10 °C when the samples are received at the laboratory. Samples stored in the lab must be held at or below 6 °C until extraction, but should not be frozen.

NOTE: Samples that are significantly above 10° C, at the time of collection, may need to be iced or refrigerated for a period of time, in order to chill them prior to shipping. This will allow them to be shipped with sufficient ice to meet the above requirements.

6.5 Sample Handling

6.5.1 Holding Times

6.5.1.1 Water samples should be extracted as soon as possible but must be extracted within 14 days. Soil samples should be extracted within 28 days. Extracts are stored at < 10 ° C and analyzed within 28 days after extraction.

7. Equipment and Supplies

7.1 SAMPLE CONTAINERS – 250-mL high density polyethylene (HDPE) bottles fitted with unlined screw caps. Sample bottles must be discarded after use.

7.2 POLYPROPYLENE BOTTLES – 4-mL narrow-mouth polypropylene bottles.

7.3 CENTRIFUGE TUBES – 50-mL conical polypropylene tubes with polypropylene screw caps for storing standard solutions and for collection of the extracts.

7.4 AUTOSAMPLER VIALS – Polypropylene 0.7-mL autosampler vials with polypropylene caps.

7.4.1 NOTE: Polypropylene vials and caps are necessary to prevent contamination of the sample from PTFE coated septa. However, polypropylene caps do not reseal, so evaporation occurs after injection. Thus, multiple injections from the same vial are not possible.

7.5 POLYPROPYLENE GRADUATED CYLINDERS – Suggested sizes include 25, 50, 100 and 1000-mL cylinders.

7.6 Auto Pipets – Suggested sizes include 5, 10, 25, 50, 100, 250, 500, 1000, 5000 and 10,000-µls.

7.7 PLASTIC PIPETS – Polypropylene or polyethylene disposable pipets.

7.8 ANALYTICAL BALANCE – Capable of weighing to the nearest 0.0001 g.

7.9 SOLID PHASE EXTRACTION (SPE) APPARATUS FOR USING CARTRIDGES

7.9.1 SPE CARTRIDGES – 0.5 g SPE cartridges containing a reverse phase copolymer characterized by a weak anion exchanger (WAX) sorbent phase.

7.9.2 VACUUM EXTRACTION MANIFOLD – A manual vacuum manifold with large volume sampler for cartridge extractions, or an automatic/robotic sample preparation system designed for use with SPE cartridges, may be used if all QC requirements discussed in Section 9 are met. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. Care must be taken with automated SPE systems to ensure the PTFE commonly used in these systems does not contribute to unacceptable analyte concentrations in the MB (Sect. 9.2.1).

7.9.3 SAMPLE DELIVERY SYSTEM – Use of a polypropylene transfer tube system, which transfers the sample directly from the sample container to the SPE cartridge, is recommended, but not mandatory. Standard extraction manifolds come equipped with PTFE transfer tube systems. These can be replaced with 1/8” O.D. x 1/16” I.D. polypropylene or polyethylene tubing cut to an appropriate length to ensure no sample contamination from the sample transfer lines. Other types of non-PTFE tubing may be used provided it meets the MB (Sect. 9.2.1) and LCS (Sect. 9.3) QC requirements. The PTFE transfer tubes may be used, but an MB must be run on each PFTE transfer tube and the QC requirements in Section 13.2.2 must be met. In the case of automated SPE, the removal of PTFE lines may not be feasible; therefore, MBs will need to be rotated among the ports and must meet the QC requirements of Sections 13.2.2 and 9.2.1.

7.10 Extract Clean-up Cartridge – 250 mg 6ml SPE Cartridge containing graphitized polymer carbon

7.11 EXTRACT CONCENTRATION SYSTEM – Extracts are concentrated by evaporation with nitrogen using a water bath set no higher than 65 °C.

7.12 LABORATORY OR ASPIRATOR VACUUM SYSTEM – Sufficient capacity to maintain a vacuum of approximately 10 to 15 inches of mercury for extraction cartridges.

7.13 LIQUID CHROMATOGRAPHY (LC)/TANDEM MASS SPECTROMETER (MS/MS) WITH DATA SYSTEM

7.13.1 LC SYSTEM – Instrument capable of reproducibly injecting up to 10-µL aliquots, and performing binary linear gradients at a constant flow rate near the flow rate used for development of this method (0.4 mL/min). The LC must be capable of pumping the water/methanol mobile phase without the use of a degasser which pulls vacuum on the mobile phase bottle (other types of degassers are acceptable). Degassers which pull vacuum on the mobile phase bottle will volatilize the ammonium acetate mobile phase causing the analyte peaks to shift to earlier retention times over the course of the analysis batch. The usage of a column heater is optional.

NOTE: During the course of method development, it was discovered that while idle for more than one day, PFAS's built up in the PTFE solvent transfer lines. To prevent long delays in purging high levels of PFAS's from the LC solvent lines, they were replaced with PEEK tubing and the PTFE solvent frits were replaced with stainless steel frits. It is not possible to remove all PFAS background contamination, but these measures help to minimize their background levels.

7.13.2 LC/TANDEM MASS SPECTROMETER – The LC/MS/MS must be capable of negative ion electrospray ionization (ESI) near the suggested LC flow rate of 0.4 mL/min. The system must be capable of performing MS/MS to produce unique product ions for the method analytes within specified retention time segments. A minimum of 10 scans across the chromatographic peak is required to ensure adequate precision.

7.13.3 DATA SYSTEM – An interfaced data system is required to acquire, store, reduce, and output mass spectral data. The computer software should have the capability of processing stored LC/MS/MS data by recognizing an LC peak within any given retention time window. The software must allow integration of the ion abundance of any specific ion within specified time or scan number limits. The software must be able to calculate relative response factors, construct linear regressions or quadratic calibration curves, and calculate analyte concentrations.

7.13.4 ANALYTICAL COLUMN – An LC BEH C_{18} column (2.1 x 50 mm) packed with 1.7 µm d_p C_{18} solid phase particles was used. Any column that provides adequate resolution, peak shape, capacity, accuracy, and precision (Sect. 9) may be used.

8. Reagents and Standards

8.1 GASES, REAGENTS, AND SOLVENTS – Reagent grade or better chemicals should be used.

8.1.1 REAGENT WATER – Purified water which does not contain any measurable quantities of any method analytes or interfering compounds greater than 1/3 the RL for each method analyte of interest. Prior to daily use, at least 3 L of reagent water should be flushed from the purification system to rinse out any build-up of analytes in the system's tubing.

8.1.2 METHANOL (CH_3OH, CAS#: 67-56-1) – High purity, demonstrated to be free of analytes and interferences.

8.1.3 AMMONIUM ACETATE ($NH_4C_2H_3O_2$, CAS#: 631-61-8) – High purity, demonstrated to be free of analytes and interferences.

8.1.4 ACETIC ACID (H_3CCOOH, CAS#: 64-19-7) - High purity, demonstrated to be free of analytes and interferences.

8.1.5 1M AMMONIUM ACETATE/REAGENT WATER – High purity, demonstrated to be free of analytes and interferences.

8.1.6 2mM AMMONIUM ACETATE/METHANOL:WATER (5:95) – To prepare, mix 2 ml of 1M AMMONIUM ACETATE,1 ml ACETIC ACID and 50 ml METHANOL into I Liter of REAGENT WATER.

8.1.7 Methanol/Water (80:20) – To prepare a 1 Liter bottle, mix 200 ml of REAGENT WATER with 800 ml of METHANOL.

8.1.8 AMMONIUM HYDROXIDE (NH_3, CAS#: 1336-21-6) – High purity, demonstrated to be free of analytes and interferences.

8.1.9 Sodium Acetate ($NaOOCCH_3$, CAS#: 127-09-3) – High purity, demonstrated to be free of analytes and interferences.

8.1.10 25 mM Sodium Acetate Buffer – To prepare 250mls, dissolve .625 grams of sodium acetate into 100 mls of reagent water. Add 4 mls Acetic Acid and adjust the final volume to 250 mls with reagent water.

8.1.11 NITROGEN – Used for the following purposes: Nitrogen aids in aerosol generation of the ESI liquid spray and is used as collision gas in some MS/MS instruments. The nitrogen used should meet or exceed instrument manufacturer's specifications. In addition, Nitrogen is used to concentrate sample extracts (Ultra High Purity or equivalent).

8.1.12 ARGON – Used as collision gas in MS/MS instruments. Argon should meet or exceed instrument manufacturer's specifications. Nitrogen gas may be used as the collision gas provided sufficient sensitivity (product ion formation) is achieved.

8.2 STANDARD SOLUTIONS – When a compound purity is assayed to be 96% or greater, the weight can be used without correction to calculate the concentration of the stock standard. PFAS analyte and IS standards commercially purchased in glass ampoules are acceptable; however, all subsequent transfers or dilutions performed by the analyst must be prepared and stored in polypropylene containers. Standards for sample fortification generally should be prepared in the smallest volume that can be accurately measured to minimize the addition of excess organic solvent to aqueous samples.

NOTE: Stock standards and diluted stock standards are stored at ≤4 °C.

8.2.1 ISOTOPE DILUTION Extracted Internal Standard (ID EIS) STOCK SOLUTIONS - ID EIS stock standard solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration of 1000 ng/mL.

8.2.2 ISOTOPE DILUTION Extracted Internal Standard PRIMARY DILUTION STANDARD (ID EIS PDS) – Prepare the ID EIS PDS at a concentration of 500 ng/mL. The ID PDS is prepared in 80:20% (vol/vol) methanol:water. The ID PDS is stable for 6 months when stored at ≤4 °C.

Table 2

Isotope Labeled Standard	Conc. of EIS Stock (ng/mL)	Vol. of EIS Stock (mL)	Final Vol. of EIS PDS (mL)	Final Conc. of EIS PDS (ng/mL)
M4PFBA	1000	1.0	2.0	500
M5PFPeA	1000	1.0	2.0	500
M5PFHxA	1000	1.0	2.0	500
M4PFHpA	1000	1.0	2.0	500
M8PFOA	1000	1.0	2.0	500
M9PFNA	1000	1.0	2.0	500
M6PFDA	1000	1.0	2.0	500
M7PFUdA	1000	1.0	2.0	500
MPFDoA	1000	1.0	2.0	500
M2PFTeDA	1000	1.0	2.0	500
M2PFHxDA	50,000	.02	2.0	500
d3-N-MeFOSA	50,000	.02	2.0	500
d5-N-EtFOSA	50,000	.02	2.0	500
d7-N-MeFOSE	50,000	.02	2.0	500
d9-N-EtFOSE	50,000	.02	2.0	500
M8FOSA	1000	1.0	2.0	500
d3-N-MeFOSAA	1000	1.0	2.0	500
d5-N-EtFOSAA	1000	1.0	2.0	500
M3PFBS	929	1.0	2.0	464.5
M3PFHxS	946	1.0	2.0	473
M8PFOS	957	1.0	2.0	478.5
M2-4:2FTS	935	1.0	2.0	467.5
M2-6:2FTS	949	1.0	2.0	474.5
M2-8:2FTS	958	1.0	2.0	479
M3HFPO-DA	50,000	.4	2.0	10,000

8.2.3 ANALYTE STOCK STANDARD SOLUTION – Analyte stock standards are stable for at least 6 months when stored at 4 °C. When using these stock standards to prepare a PDS, care must be taken to ensure that these standards are at room temperature and adequately vortexed.

8.2.4 Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only. ANALYTE PRIMARY SPIKING STANDARD – Prepare the spiking standard at a concentration of 500 ng/mL in methanol. The spiking standard is stable for at least two months when stored in polypropylene centrifuge tubes at room temperature.

Table 3

Analyte	Conc. of IS Stock (ng/mL)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/mL)
PFBA	2000	1	4	500
PFPeA	2000	1	4	500
PFHxA	2000	1	4	500
PFHpA	2000	1	4	500
PFOA	2000	1	4	500
PFNA	2000	1	4	500
PFDA	2000	1	4	500
PFUdA	2000	1	4	500
PFDoA	2000	1	4	500
PFTrDA	2000	1	4	500
PFTeDA	2000	1	4	500
FOSA	2000	1	4	500
N-MeFOSAA	2000	1	4	500
N-EtFOSAA	2000	1	4	500
L-PFBS	1770	1	4	442.5
L-PFPeS	1880	1	4	470
L-PFHxSK	1480	1	4	370
Br-PFHxSK	344	1	4	86
L-PFHpS	1900	1	4	475
L-PFOSK	1460	1	4	365
Br-PFOSK	391	1	4	97.75
L-PFNS	1920	1	4	480
L-PFDS	1930	1	4	482.5
4:2FTS	1870	1	4	467.5
6:2FTS	1900	1	4	475
8:2FTS	1920	1	4	480

8.2.5 Analyte Secondary Spiking Standard Prepare the spiking solution of additional add on components for project specific requirements only.

Table 4

Analyte	Conc. of IS Stock (ng/mL)	Vol. of IS Stock (mL)	Final Vol. of IS PDS (mL)	Final Conc. of IS PDS (ng/mL)
ADONA	2000	1	4	500
PFHxDA	2000	1	4	500
PFODA	2000	1	4	500
HFPO-DA	100,000	.4	4	10,000
9ClPF3ONS	50,000	0.04	4	500
11ClPF3OUdS	50,000	0.04	4	500

8.2.6 LOW, MEDIUM AND HIGH LEVEL LCS – The LCS's will be prepared at the following concentrations and rotated per batch; 2 ng/L, 40 ng/L, 500 ng/l for drinking waters. The analyte PDS contains all the method analytes of interest at various concentrations in methanol. The analyte PDS has been shown to be stable for six months when stored at ≤4 °C.

8.2.7 Isotope Dilution Labeled Recovery Stock Solutions (ID REC) – ID REC Stock solutions are stable for at least 6 months when stored at 4 °C. The stock solution is purchased at a concentration of 1000 ng/mL.

8.2.8 Isotope Dilution Labeled Recovery Primary Dilution Standard (ID REC PDS) - Prepare the ID REC PDS at a concentration of 500 ng/mL. The ID REC PDS is prepared in 80:20% (vol/vol) methanol:water. The ID REC PDS is stable for at least six months when stored in polypropylene centrifuge tubes at ≤4 °C.

Table 5

Analyte	Conc. of REC Stock (ng/mL)	Vol. of REC Stock (mL)	Final Vol. of REC PDS (mL)	Final Conc. of REC PDS (ng/mL)
M2PFOA	2000	1	4	500
M2PFDA	2000	1	4	500
M3PFBA	2000	1	4	500
M4PFOS	2000	1	4	500

8.2.9 CALIBRATION STANDARDS (CAL) –

Current Concentrations (ng/mL): 0.5, 1.0, 5.0, 10.0, 50.0, 125, 150, 250, 500

Prepare the CAL standards over the concentration range of interest from dilutions of the analyte PDS in methanol containing 20% reagent water. 20 µl of the EIS PDS and REC PDS are added to the CAL standards to give a constant concentration of 10 ng/ml. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity. The CAL standards may also be used as CCVs (Sect. 9.8). To make calibration stock standards:

Table 6

Calibration Standard Concentration	Final Aqueous Cal STD Level Concentration	Final Soil Cal STD Level Concentration	24 compound stock added (ul)	PFHxDA Stock added (ul)	500 ng/ml PFHxDA dilution added (ul)	PFODA Stock added (ul)	500 ng/ml PFODA dilution added (ul)	ADONA, HFPO-DA, 11Cl-PF3OUdS, 9Cl-PF3ONS Stock added (ul)	500 ng/ml ADONA dilution added (ul)	Final Volume in MeOH/H_2O (82:20)
.5 ng/ml	2 ng/L	.25 ng/g	6.25		25		25		25	25 mls
1 ng/ml	4 ng/L	.5 ng/g	5		20		20		20	10 mls
5 ng/ml	20 ng/L	1 ng/g	25		100		100		100	10 mls
10 ng/ml	40 ng/L	5 ng/g	125	5		5		5		25 mls

50 ng/ml	200 ng/L	25 ng/g	250	10		10		10		10 mls
125 ng/ml	500 ng/L	62.5 ng/g	625	25		25		25		10 mls
150 ng/ml	600 ng/L	75 ng/g	750	30		30		30		10 mls
250 ng/ml	1000 ng/L	125 ng/g	625							5 mls
500 ng/ml	2000 ng/L	250 ng/g	1250							5 mls

9. Quality Control

The laboratory must maintain records to document the quality of data that is generated. Ongoing data quality checks are compared with established performance criteria to determine if the results of analyses meet the performance characteristics of the method.

9.1 MINIMUM REPORTING LIMIT (MRL) CONFIRMATION

9.1.1 Fortify, extract, and analyze seven replicate LCSs at 2 ng/l. Calculate the mean measured concentration (*Mean*) and standard deviation for these replicates. Determine the Half Range for the prediction interval of results (HR_{PIR}) using the equation below

$$HR_{PIR} = 3.963s$$

Where:

s = the standard deviation
3.963 = a constant value for seven replicates.

9.1.2 Confirm that the upper and lower limits for the Prediction Interval of Result ($PIR = Mean \pm HR_{PIR}$) meet the upper and lower recovery limits as shown below

The Upper PIR Limit must be ≤150% recovery.

$$\frac{Mean + HR_{PIR}}{Fortified\ Concentration} \times 100\% \leq 150\%$$

The Lower PIR Limit must be ≥ 50% recovery.

$$\frac{Mean - HR_{PIR}}{Fortified\ Concentration} \times 100\% \geq 50\%$$

9.1.3 The RL is validated if both the Upper and Lower PIR Limits meet the criteria described above. If these criteria are not met, the RL has been set too low and must be determined again at a higher concentration.

9.2 Blank(s)

9.2.1 **METHOD BLANK (MB) -** A Method Blank (MB) is required with each extraction batch to confirm that potential background contaminants are not interfering with the identification or quantitation of method analytes. Prep and analyze a MB for every 20 samples. If the MB produces a peak within the retention time window of any analyte that would prevent the determination of that analyte, determine the source of contamination and eliminate the interference before processing samples. Background contamination must be reduced to an acceptable level before proceeding. Background from method analytes or other contaminants that

interfere with the measurement of method analytes must be below the RL. If the method analytes are detected in the MB at concentrations equal to or greater than this level, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch. Because background contamination is a significant problem for several method analytes, it is highly recommended that the analyst maintain a historical record of MB data.

9.2.2 **FIELD REAGENT BLANK (FRB)** - The purpose of the FRB is to ensure that PFAS's measured in the Field Samples were not inadvertently introduced into the sample during sample collection/handling. Analysis of the FRB is required only if a Field Sample contains a method analyte or analytes at or above the RL. The FRB is processed, extracted and analyzed in exactly the same manner as a Field Sample.

9.3 Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicates (LCSD)

9.3.1 An LCS is required with each extraction batch. The fortified concentration of the LCS may be rotated between low, medium, and high concentrations from batch to batch. Default limits of 50-150% of the true value may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. Calculate the percent recovery (%*R*) for each analyte using the equation

$$\%R = \frac{A \times 100}{B}$$

Where:

A = measured concentration in the fortified sample
B =fortification concentration.

9.3.2 Where applicable, LCSD's are to be extracted and analyzed. The concentration and analyte recovery criteria for the LCSD must be the same as the batch LCS The RSD's must fall within ≤30% of the true value for medium and high level replicates, and ≤50% for low level replicates. Calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation

$$RPD = \frac{|LCS - LCSD|}{(LCS + LCSD) / 2} \times 100$$

9.3.3 **If the LCS and or LCSD results do not meet these criteria for method analytes, then all data for the problem analyte(s) must be considered invalid for all samples in the extraction batch.**

9.4 Labeled Recovery Standards (REC)

The analyst must monitor the peak areas of the REC(s) in all injections during each analysis day.

9.5 Extracted Internal Standards (EIS)

9.5.1 The EIS standard is fortified into all samples, CCVs, MBs, LCSs, MSs, MSDs, FD, and FRB prior to extraction. It is also added to the CAL standards. The EIS is a means of assessing method performance from extraction to final

chromatographic measurement. Calculate the recovery (%R) for the EIS using the following equation

$$\%R = (A / B) \times 100$$

Where:

A = calculated EIS concentration for the QC or Field Sample
B = fortified concentration of the EIS.

9.5.2 Default limits of 50-150% may be used for analytes until sufficient replicates have been analyzed to generate proper control limits. A low or high percent recovery for a sample, blank, or CCV does not require discarding the analytical data but it may indicate a potential problem with future analytical data. When EIS recovery from a sample, blank, or CCV are outside control limits, check 1) calculations to locate possible errors, 2) standard solutions for degradation, 3) contamination, and 4) instrument performance. For CCVs and QC elements spiked with all target analytes, if the recovery of the corresponding target analytes meet the acceptance criteria for the EIS in question, the data can be used but all potential biases in the recovery of the EIS must be documented in the sample report. If the associated target analytes do not meet the acceptance criteria,the data must be reanalyzed.

9.6 Matrix Spike (MS)

9.6.1 Analysis of an MS is required in each extraction batch and is used to determine that the sample matrix does not adversely affect method accuracy. Assessment of method precision is accomplished by analysis of a Field Duplicate (FD) (Sect. 9.6); however, infrequent occurrence of method analytes would hinder this assessment. If the occurrence of method analytes in the samples is infrequent, or if historical trends are unavailable, a second MS, or MSD, must be prepared, extracted, and analyzed from a duplicate of the Field Sample. Extraction batches that contain MSDs will not require the extraction of a field sample duplicate. If a variety of different sample matrices are analyzed regularly, for example, drinking water from groundwater and surface water sources, method performance should be established for each. Over time, MS data should be documented by the laboratory for all routine sample sources.

9.6.2 Within each extraction batch, a minimum of one Field Sample is fortified as an MS for every 20 Field Samples analyzed. The MS is prepared by spiking a sample with an appropriate amount of the Analyte Stock Standard (Sect. 8.2.3). Use historical data and rotate through the low, mid and high concentrations when selecting a fortifying concentration. Calculate the percent recovery (%*R*) for each analyte using the equation

$$\%R = \frac{(A - B)}{C} \times 100$$

Where:

A = measured concentration in the fortified sample
B = measured concentration in the unfortified sample
C = fortification concentration.

9.6.3 Analyte recoveries may exhibit matrix bias. For samples fortified at or above their native concentration, recoveries should range between 50-150%. If the accuracy of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCS, the recovery is judged to be

matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7 Laboratory Duplicate

9.7.1 FIELD DUPLICATE OR LABORATORY FORTIFIED SAMPLE MATRIX DUPLICATE (FD or MSD) – Within each extraction batch (not to exceed 20 Field Samples), a minimum of one FD or MSD must be analyzed. Duplicates check the precision associated with sample collection, preservation, storage, and laboratory procedures. If method analytes are not routinely observed in Field Samples, an MSD should be analyzed rather than an FD.

9.7.2 Calculate the relative percent difference (*RPD*) for duplicate measurements (*FD1* and *FD2*) using the equation

$$RPD = \frac{|FD1 - FD2|}{(FD1 + FD2) / 2} \times 100$$

9.7.3 RPDs for FDs should be ≤30%. Greater variability may be observed when FDs have analyte concentrations that are within a factor of 2 of the RL. At these concentrations, FDs should have RPDs that are ≤50%. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the CCV, the recovery is judged to be matrix biased. The result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.7.4 If an MSD is analyzed instead of a FD, calculate the relative percent difference (RPD) for duplicate MSs (MS and MSD) using the equation

$$RPD = \frac{|MS - MSD|}{(MS + MSD) / 2} \times 100$$

9.7.5 RPDs for duplicate MSs should be ≤30% for samples fortified at or above their native concentration. Greater variability may be observed when MSs are fortified at analyte concentrations that are within a factor of 2 of the RL. MSs fortified at these concentrations should have RPDs that are ≤50% for samples fortified at or above their native concentration. If the RPD of any analyte falls outside the designated range, and the laboratory performance for that analyte is shown to be in control in the LCSD where applicable, the result is judged to be matrix biased. If no LCSD is present, the associated MS and MSD are to be re-analyzed to determine if any analytical has occurred. If the resulting RPDs are still outside control limits, the result for that analyte in the unfortified sample is labeled suspect/matrix to inform the data user that the results are suspect due to matrix effects.

9.8 Initial Calibration Verification (ICV)

9.8.1 As part of the IDC (Sect. 13.2), and after each ICAL, analyze a QCS sample from a source different from the source of the CAL standards. If a second vendor is not available, then a different lot of the standard should be used. The QCS should be prepared and analyzed just like a CCV. Acceptance criteria for the QCS are identical to the CCVs; the calculated amount for each analyte must be ±

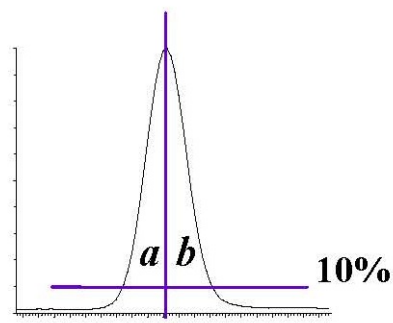
30% of the expected value. If measured analyte concentrations are not of acceptable accuracy, check the entire analytical procedureto locate and correct the problem.

9.9 Continuing Calibration Verification (CCV)

9.9.1 CCV Standards are analyzed at the beginning of each analysis batch, after every 10 Field Samples, and at the end of the analysis batch. See Section 10.7 for concentration requirements and acceptance criteria.

9.10 Method-specific Quality Control Samples

9.10.1 PEAK ASYMMETRY FACTOR – A peak asymmetry factor must be calculated using the equation below during the IDL and every time a calibration curve is generated. The peak asymmetry factor for the first two eluting peaks in a midlevel CAL standard (if only two analytes are being analyzed, both must be evaluated) must fall in the range of 0.8 to 1.5. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.



$$A_s = b / a$$

Where:

A_s = peak asymmetry factor
b = width of the back half of the peak measured (at 10% peak height) from the trailing edge of the peak to a line dropped perpendicularly from the peak apex
a = the width of the front half of the peak measured (at 10% peak height) from the leading edge of the peak to a line dropped perpendicularly from the apex.

9.11 Method Sequence

- CCV-LOW
- MB
- LCS
- LCSD
- MS
- Duplicate or MSD
- Field Samples (1-10)
- CCV-MID
- Field Samples (11-20)
- CCV-LOW

10. Procedure

10.1 Equipment Set-up

10.1.1 This procedure may be performed manually or in an automated mode using a robotic or automatic sample preparation device. If an automated system is used to prepare samples, follow the manufacturer's operating instructions, but all extraction and elution steps must be the same as in the manual procedure. Extraction and/or elution steps may not be changed or omitted to accommodate the use of an automated system. If an automated system is used, the MBs should be rotated among the ports to ensure that all the valves and tubing meet the MB requirements (Sect. 9.2).

10.1.2 Some of the PFAS's adsorb to surfaces, including polypropylene. Therefore, the aqueous sample bottles must be rinsed with the elution solvent (Sect 10.3.4) whether extractions are performed manually or by automation. The bottle rinse is passed through the cartridge to elute the method analytes and is then collected (Sect. 10.3.4).

10.1.3 **NOTE:** The SPE cartridges and sample bottles described in this section are designed as single use items and should be discarded after use. They may not be refurbished for reuse in subsequent analyses.

10.2 Sample Preparation and Extraction of Aqueous Samples

10.2.1 Samples are preserved, collected and stored as presented in Section 6.

The entire sample that is received must be sent through the SPE cartridge. In addition, the bottle must be solvent rinsed and this rinse must be sent through the SPE cartridge as well. The method blank (MB) and laboratory control sample (LCS) must be extracted in exactly the same manner (i.e., must include the bottle solvent rinse). It should be noted that a water rinse alone is not sufficient. This does not apply to samples with high concentrations of PFAS that are prepared using serial dilution and not SPE.

10.2.2 Determine sample volume. Weigh all samples to the nearest 1g. If visible sediment is present, centrifuge and decant into a new 250mL HDPE bottle and record the weight of the new container.

NOTE: Some of the PFAS's adsorb to surfaces, thus the sample volume may **NOT** be transferred to a graduated cylinder for volume measurement.

10.2.3 The MB, LCS and FRB may be prepared by measuring 250 mL of reagent water with a polypropylene graduated cylinder or filling a 250-mL sample bottle to near the top.

10.2.4 Adjust the QC and sample pH to 3 by adding acetic acid in water dropwise

10.2.5 Add 20 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC, cap and invert to mix.

10.2.6 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.3). Cap and invert each sample to mix.

10.3 Cartridge SPE Procedure

10.3.1 CARTRIDGE CLEAN-UP AND CONDITIONING – DO NOT allow cartridge packing material to go dry during any of the conditioning steps. Rinse each cartridge with 3 X 5 mL of 2% ammonium hydroxide in methanol, followed by 5mls of methanol. Next, rinse each cartridge with 5 mls of the 25 mM acetate buffer, followed by 15 mL of reagent water, without allowing the water to drop below the top edge of the packing. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Add 4-5 mL of reagent water to each cartridge, attach the sample transfer tubes (Sect. 7.9.3), turn on the vacuum, and begin adding sample to the cartridge.

10.3.2 SAMPLE EXTRACTON – Adjust the vacuum so that the approximate flow rate is approximately 4 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.

10.3.3 SAMPLE BOTTLE AND CARTRIDGE RINSE – After the entire sample has passed through the cartridge, rinse the sample bottles with 4 ml reagent water followed by 4 ml 25 mM acetate buffer at pH 4 and draw the aliquot through the sample transfer tubes and the cartridges. Draw air or nitrogen through the cartridge for 5-10 min at high vacuum (10-15 in. Hg). **NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the entire sample has passed through the cartridge, the reservoirs must be rinsed to waste with reagent water.**

10.3.4 SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 1 – Turn off and release the vacuum. Lift the extraction manifold top and insert a rack with collection tubes into the extraction tank to collect the extracts as they are eluted from the cartridges. Rinse the sample bottles with 12 mls of methanol and draw the aliquot through the sample transfer tubes and cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

SAMPLE BOTTLE AND CARTRIDGE ELUTION, Fraction 2 In a separate collection vial, rinse the sample bottles with 12 mL of 2% ammonium hydroxide in methanol and elute the analytes from the cartridges by pulling the 4 mL of methanol through the sample transfer tubes and the cartridges. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion. To the final extract, add 50 ul of acetic acid.

NOTE: If empty plastic reservoirs are used in place of the sample transfer tubes to pass the samples through the cartridges, these reservoirs must be treated like the transfer tubes. After the reservoirs have been rinsed in Section 10.3.3, the elution solvent used to rinse the sample bottles must be swirled down the sides of the reservoirs while eluting the cartridge to ensure that any method analytes on the surface of the reservoirs are transferred to the extract.

CLEAN-UP CARTRIDGE ELUTION, Elute the clean-up cartridge with 8 additional mls of methanol and draw the aliquot through the cartridge. Use a low vacuum such that the solvent exits the cartridge in a dropwise fashion.

10.3.5 Fractions 1 and 2 are to be combined during the concentration stage (section10.6)

10.4 Sample Prep and Extraction Protocol for Soils

10.4.1 Homogenize and weigh 2 grams of sample (measured to the nearest hundredth of a gram) intoa 50 ml polypropylene centrifuge tube. For laboratory control blanks and spikes, 2 grams of clean sand is used.

10.4.2 Add 20 µL of the EIS PDS (Sect. 8.2.2) to each sample and QC.

10.4.3 If the sample is an LCS, LCSD, MS, or MSD, add the necessary amount of analyte PDS (Sect. 8.2.3). Cap and invert each sample to mix.

10.4.4 To all samples, add 10 mls of methanol, cap, vortex for 25 seconds at 3000RPM and mix for 30 minutes using a shaker table of tumbler at 120RPM.

10.4.5 Following mixing, sonicate each sample for 30 minutes and let samples sit overnight (at least 2 hours is required for RUSH samples).

10.4.6 Centrifuge each sample at 3500RPM for 10 minutes.

10.4.7 Remove supernatant, and reserve for clean-up.

10.5 Extract Clean-up

10.5.1 CARTRIDGE CLEAN-UP AND CONDITIONING –. Rinse each cartridge with 15 mL of methanol and discard. If the cartridge goes dry during the conditioning phase, the conditioning must be started over. Attach the sample transfer tubes (Sect. 7.9.3), turn on the vacuum, and begin adding sample to the cartridge.

10.5.2 Adjust the vacuum so that the approximate flow rate is 1-2 mL/min. Do not allow the cartridge to go dry before all the sample has passed through.

10.5.3 SAMPLE BOTTLE AND CARTRIDGE RINSE – After the entire sample has passed through the cartridge, rinse the sample collection vial with two 1-mL aliquots of methanol and draw each aliquot through the cartridges. Draw air or nitrogen through the cartridge for 5 min at high vacuum (10-15 in. Hg).

10.5.4 If extracts are not to be immediately evaporated, cover collection tubes and store at ambient temperature till concentration.

10.6 Extract Concentration

10.6.1 Concentrate the extract to dryness under a gentle stream of nitrogen in a heated water bath (60-65 °C) to remove all the water/methanol mix. Add the appropriate amount of 80:20% (vol/vol) methanol:water solution and 20 µl of the ID REC PDS (Sect. 8.2.7) to the collection vial to bring the volume to 1 mL and vortex. Transfer two aliquots with a plastic pipet (Sect. 7.6) into 2 polypropylene autosampler vials.

NOTE: It is recommended that the entire 1-mL aliquot not be transferred to the autosampler vial because the polypropylene autosampler caps do not reseal after injection. Therefore, do not store the extracts in the autosampler vials as evaporation losses can occur occasionally in these autosampler vials. Extracts can be split between 2 X 700 µl vials (Sect. 7.4).

10.7 Sample Volume Determination

10.7.1 If the level of the sample was marked on the sample bottle, use a graduated cylinder to measure the volume of water required to fill the original sample bottle to the mark made prior to extraction. Determine to the nearest 10 mL.

10.7.2 If using weight to determine volume, weigh the empty bottle to the nearest 10 g and determine the sample weight by subtraction of the empty bottle weight from the original sample weight (Sect. 10.2.2). Assume a sample density of 1.0 g/mL. In either case, the sample volume will be used in the final calculations of the analyte concentration (Sect. 11.2).

10.8 Initial Calibration - Demonstration and documentation of acceptable initial calibration is required before any samples are analyzed. After the initial calibration is successful, a CCV is required at the beginning and end of each period in which analyses are performed, and after every tenth Field Sample.

10.8.1 ESI-MS/MS TUNE

10.8.1.1 Calibrate the mass scale of the MS with the calibration compounds and procedures prescribed by the manufacturer.

10.8.1.2 Optimize the [M-H]- for each method analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS parameters (voltages, temperatures, gas flows, etc.) are varied until optimal analyte responses are determined. The method analytes may have different optima requiring some compromise between the optima.

10.8.1.3 Optimize the product ion for each analyte by infusing approximately 0.5-1.0 µg/mL of each analyte (prepared in the initial mobile phase conditions) directly into the MS at the chosen LC mobile phase flow rate (approximately 0.4 mL/min). This tune can be done on a mix of the method analytes. The MS/MS parameters (collision gas pressure, collision energy, etc.) are varied until optimal analyte responses are determined. Typically, the carboxylic acids have very similar MS/MS conditions and the sulfonic acids have similar MS/MS conditions.

10.8.2 Establish LC operating parameters that optimize resolution and peak shape. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

Cautions: LC system components, as well as the mobile phase constituents, contain many of the method analytes in this method. Thus, these PFAS's will build up on the head of the LC column during mobile phase equilibration. To minimize the background PFAS peaks and to keep background levels constant, the time the LC column sits at initial conditions must be kept constant and as short as possible (while ensuring reproducible retention times). In addition, prior to daily use, flush the column with 100% methanol for at least 20 min before initiating a sequence. It may be necessary on some systems to flush other LC components such as wash syringes, sample needles or any other system components before daily use.

10.8.3 Inject a mid-level CAL standard under LC/MS conditions to obtain the retention times of each method analyte. If analyzing for PFTA, ensure that the LC

conditions are adequate to prevent co-elution of PFTA and the mobile phase interferants. These interferants have the same precursor and products ions as PFTA, and under faster LC conditions may co-elute with PFTA. Divide the chromatogram into retention time windows each of which contains one or more chromatographic peaks. During MS/MS analysis, fragment a small number of selected precursor ions ([M-H]-) for the analytes in each window and choose the most abundant product ion. For maximum sensitivity, small mass windows of ±0.5 daltons around the product ion mass were used for quantitation.

10.8.4 Inject a mid-level CAL standard under optimized LC/MS/MS conditions to ensure that each method analyte is observed in its MS/MS window and that there are at least 10 scans across the peak for optimum precision.

10.8.4.1 If broad, split or fronting peaks are observed for the first two eluting chromatographic peaks (if only two analytes are being analyzed, both must be evaluated), change the initial mobile phase conditions to higher aqueous content until the peak asymmetry ratio for each peak is 0.8 – 1.5. The peak asymmetry factor is calculated as described in Section 9.9.1 on a mid-level CAL standard. The peak asymmetry factor must meet the above criteria for the first two eluting peaks during the IDL and every time a new calibration curve is generated. Modifying the standard or extract composition to more aqueous content to prevent poor shape is not permitted.

NOTE: PFHxS, PFOS, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to chromatographic resolution of the linear and branched isomers of these compounds. Most PFAS's are produced by two different processes. One process gives rise to linear PFAS's only while the other process produces both linear and branched isomers. Thus, both branched and linear PFAS's can potentially be found in the environment. For the aforementioned compounds that give rise to more than one peak, all the chromatographic peaks observed in the standard must be integrated and the areas totaled. Chromatographic peaks in a sample must be integrated in the same way as the CAL standard.

10.8.5 Prepare a set of CAL standards as described in Section 8.2.5. The lowest concentration CAL standard must be at or below the RL (2 ng/L), which may depend on system sensitivity.

10.8.6 The LC/MS/MS system is calibrated using the IS technique. Use the LC/MS/MS data system software to generate a linear regression or quadratic calibration curve for each of the analytes. This curve **must always** be forced through zero and may be concentration weighted, if necessary. Forcing zero allows for a better estimate of the background levels of method analytes. A minimum of 5 levels are required for a linear calibration model and a minimum of 6 levels are required for a quadratic calibration model.

10.8.7 **CALIBRATION ACCEPTANCE CRITERIA** – A linear fit is acceptable if the coefficient of determination (r^2) is greater than 0.99. When quantitated using the initial calibration curve, each calibration point, except the lowest point, for each analyte should calculate to be within 70-130% of its true value. The lowest CAL point should calculate to be within 50-150% of its true value. If these criteria cannot be met, the analyst will have difficulty meeting ongoing QC criteria. It is

recommended that corrective action is taken to reanalyze the CAL standards, restrict the range of calibration, or select an alternate method of calibration (forcing the curve through zero is still required).

10.8.7.1 **CAUTION:** When acquiring MS/MS data, LC operating conditions must be carefully reproduced for each analysis to provide reproducible retention times. If this is not done, the correct ions will not be monitored at the appropriate times. As a precautionary measure, the chromatographic peaks in each window must not elute too close to the edge of the segment time window.

10.9 CONTINUING CALIBRATION CHECK (CCV) – Minimum daily calibration verification is as follows. Verify the initial calibration at the beginning and end of each group of analyses, and after every tenth sample during analyses. In this context, a "sample" is considered to be a Field Sample. MBs, CCVs, LCSs, MSs, FDs FRBs and MSDs are not counted as samples. The beginning CCV of each analysis batch must be at or below the RL in order to verify instrument sensitivity prior to any analyses. If standards have been prepared such that all low CAL points are not in the same CAL solution, it may be necessary to analyze two CAL standards to meet this requirement. Alternatively, the analyte concentrations in the analyte PDS may be customized to meet these criteria. Subsequent CCVs should alternate between a medium and Low concentration CAL standard.

10.9.1 Inject an aliquot of the appropriate concentration CAL standard and analyze with the same conditions used during the initial calibration.

10.9.2 Calculate the concentration of each analyte and EIS in the CCV. The calculated amount for each analyte for medium level CCVs must be within ± 30% of the true value with an allowance of 10% of the reported analytes to be greater than 30%, but less than 40%. The calculated amount for each EIS must be within ± 50% of the true value. The calculated amount for the lowest calibration point for each analyte must be within ± 50%. If these conditions do not exist, then all data for the problem analyte must be considered invalid, and remedial action should be taken (Sect. 10.7.4) which may require recalibration. Any Field or QC Samples that have been analyzed since the last acceptable calibration verification should be reanalyzed after adequate calibration has been restored, with the following exception. **If the CCV fails because the calculated concentration is greater than 130% (150% for the low-level CCV) for a particular method analyte, and Field Sample extracts show no detection for that method analyte, non-detects may be reported without re-analysis.**

10.9.3 REMEDIAL ACTION – Failure to meet CCV QC performance criteria may require remedial action. Major maintenance, such as cleaning the electrospray probe, atmospheric pressure ionization source, cleaning the mass analyzer, replacing the LC column, etc., requires recalibration (Sect 10.6) and verification of sensitivity by analyzing a CCV at or below the RL (Sect 10.7).

10.10 EXTRACT ANALYSIS

10.10.1 Establish operating conditions equivalent to those summarized in Tables 6-8 of Section 16. Instrument conditions and columns should be optimized prior to the initiation of the IDC.

10.10.2 Establish an appropriate retention time window for each analyte. This should be based on measurements of actual retention time variation for each method analyte in CAL standard solutions analyzed on the LC over the course of time. A value of plus or minus three times the standard deviation of the retention time obtained for each method analyte while establishing the initial calibration and completing the IDC can be used to calculate a suggested window size. However, the experience of the analyst should weigh heavily on the determination of the appropriate retention window size.

10.10.3 Calibrate the system by either the analysis of a calibration curve (Sect. 10.6) or by confirming the initial calibration is still valid by analyzing a CCV as described in Section 10.7. If establishing an initial calibration, complete the IDC as described in Section 13.2.

10.10.4 Begin analyzing Field Samples, including QC samples, at their appropriate frequency by injecting the same size aliquots under the same conditions used to analyze the CAL standards.

10.10.5 At the conclusion of data acquisition, use the same software that was used in the calibration procedure to identify peaks of interest in predetermined retention time windows. Use the data system software to examine the ion abundances of the peaks in the chromatogram. Identify an analyte by comparison of its retention time with that of the corresponding method analyte peak in a reference standard.

10.10.6 The analyst must not extrapolate beyond the established calibration range. If an analyte peak area exceeds the range of the initial calibration curve, the sample should be re-extracted with a reduced sample volume in order to bring the out of range target analytes into the calibration range. If a smaller sample size would not be representative of the entire sample, the following options are recommended. Re-extract an additional aliquot of sufficient size to insure that it is representative of the entire sample. Spike it with a higher concentration of internal standard. Prior to LC/MS analysis, dilute the sample so that it has a concentration of internal standard equivalent to that present in the calibration standard. Then, analyze the diluted extract.

11. Data Evaluation, Calculations and Reporting

11.1 Complete chromatographic resolution is not necessary for accurate and precise measurements of analyte concentrations using MS/MS. In validating this method, concentrations were calculated by measuring the product ions listed in Table 7.

11.2 Calculate analyte concentrations using the multipoint calibration established in Section 10.6. Do not use daily calibration verification data to quantitate analytes in samples. Adjust final analyte concentrations to reflect the actual sample volume determined in Section 10.6 where:

C_{ex} = (Area of target analyte * Concentration of Labeled analog) / (area of labeled analog * CF)

C_s = (C_{ex} / sample volume in ml) * 1000

C_{ex} = The concentration of the analyte in the extract
CF = calibration factor from calibration.

11.3 Prior to reporting the data, the chromatogram should be reviewed for any incorrect peak identification or poor integration.

11.4 PFHxS, PFOS, PFOA, NMeFOSAA, and NEtFOSAA have multiple chromatographic peaks using the LC conditions in Table 5 due to the linear and branch isomers of these compounds (Sect. 10.6.4.1). The areas of all the linear and branched isomer peaks observed in the CAL standards for each of these analytes must be summed and the concentrations reported as a total for each of these analytes.

11.5 Calculations must utilize all available digits of precision, but final reported concentrations should be rounded to an appropriate number of significant figures (one digit of uncertainty), typically two, and not more than three significant figures.

12. Contingencies for Handling Out-of-Control Data or Unacceptable Data

12.1 Section 9.0 outlines sample batch QC acceptance criteria. If non-compliant organic compound results are to be reported, the Organic Section Head and/or the Laboratory Director, and the Operations Manager must approve the reporting of these results. The laboratory Project Manager shall be notified, and may choose to relay the non-compliance to the client, for approval, or other corrective action, such as re-sampling and re-analysis. The analyst, Data Reviewer, or Department Supervisor performing the secondary review initiates the project narrative, and the narrative must clearly document the non-compliance and provide a reason for acceptance of these results.

12.2 All results for the organic compounds of interest are reportable without qualification if extraction and analytical holding times are met, preservation requirements (including cooler temperatures) are met, all QC criteria are met, and matrix interference is not suspected during extraction or analysis of the samples. If any of the below QC parameters are not met, all associated samples must be evaluated for re-extraction and/or re-analysis.

13. Method Performance

13.1 Detection Limit Study (DL) / Limit of Detection Study (LOD) / Limit of Quantitation (LOQ)

13.1.1 The laboratory follows the procedure to determine the DL, LOD, and/or LOQ as outlined in Alpha SOP ID 1732. These studies performed by the laboratory are maintained on file for review.

13.2 Demonstration of Capability Studies

13.2.1 The IDC must be successfully performed prior to analyzing any Field Samples. Prior to conducting the IDC, the analyst must first generate an acceptable Initial Calibration following the procedure outlined in Section 10.6.

13.2.2 INITIAL DEMONSTRATION OF LOW SYSTEM BACKGROUND – Any time a new lot of SPE cartridges, solvents, centrifuge tubes, disposable pipets, and autosampler vials are used, it must be demonstrated that an MB is reasonably free of contamination and that the criteria in Section 9.2.1 are met. If an automated extraction system is used, an MB should be extracted on each port to ensure that all the valves and tubing are free from potential PFAS contamination.

13.2.3 INITIAL DEMONSTRATION OF PRECISION (IDP) – Prepare, extract, and analyze four to seven replicate LCSs fortified near the midrange of the initial calibration curve according to the procedure described in Section 10. Sample preservatives as described in Section 6.2.1 must be added to these samples. The relative standard deviation (RSD) of the results of the replicate analyses must be less than 20%.

13.2.4 INITIAL DEMONSTRATION OF ACCURACY (IDA) – Using the same set of replicate data generated for Section 13.2.3, calculate average recovery. The average recovery of the replicate values must be within ± 30% of the true value.

13.2.5 INITIAL DEMONSTRATION OF PEAK ASYMMETRY FACTOR – Peak asymmetry factors must be calculated using the equation in Section 9.10.1 for the first two eluting peaks (if only two analytes are being analyzed, both must be evaluated) in a mid-level CAL standard. The peak asymmetry factors must fall in the range of 0.8 to 1.5. See guidance in Section 10.6.4.1 if the calculated peak asymmetry factors do not meet the criteria.

13.2.6 Refer to Alpha SOP ID 1739 for further information regarding IDC/DOC Generation.

13.2.7 The analyst must make a continuing, annual, demonstration of the ability to generate acceptable accuracy and precision with this method.

14. Pollution Prevention and Waste Management

14.1 Refer to Alpha's Chemical Hygiene Plan and Hazardous Waste Management and Disposal SOP for further pollution prevention and waste management information.

14.2 This method utilizes SPE to extract analytes from water. It requires the use of very small volumes of organic solvent and very small quantities of pure analytes, thereby minimizing the potential hazards to both the analyst and the environment as compared to the use of large volumes of organic solvents in conventional liquid-liquid extractions.

14.3 The analytical procedures described in this method generate relatively small amounts of waste since only small amounts of reagents and solvents are used. The matrices of concern are finished drinking water or source water. However, laboratory waste management practices must be conducted consistent with all applicable rules and regulations, and that laboratories protect the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Also, compliance is required with any sewage discharge permits and regulations, particularly the hazardous waste identification rules and land disposal restrictions.

15. Referenced Documents

Chemical Hygiene Plan – ID 2124

SOP ID 1732 Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) SOP

SOP ID 1739 Demonstration of Capability (DOC) Generation SOP

SOP ID 1728 Hazardous Waste Management and Disposal SOP

16. Attachments

Table 7: LC Method Conditions

Time (min)	2 mM Ammonium Acetate (5:95 MeOH/H_2O)	100% Methanol
Initial	100.0	0.0
1.0	100.0	0.0
2.2	85.0	15.0
11	20.0	80.0
11.4	0.0	100.0
12.4	100.0	00.0
15.5	100.0	0.0
Waters Aquity UPLC ® BEHC_{18} 2.1 x 50 mm packed with 1.7 µm BEH C_{18} stationary phase Flow rate of 0.4 mL/min 2-5 µL injection		

Table 8: ESI-MS Method Conditions

ESI Conditions	
Polarity	Negative ion
Capillary needle voltage	.5 kV
Cone Gas Flow	25 L/hr
Nitrogen desolvation gas	1000 L/hr
Desolvation gas temp.	500 ºC

Table 9: Method Analyte Source, Retention Times (RTs), and EIS References

#	Analyte	Transition	RT	IS	Type
1	M3PBA	216>171	2.65		REC
2	PFBA	213 > 169	2.65	2: M4PFBA	
3	M4PFBA	217 > 172	2.65	1: M3PBA	EIS
4	PFPeA	263 > 219	5.67	4: M5PFPEA	
5	M5PFPEA	268 > 223	5.66	1: M3PBA	EIS
6	PFBS	299 > 80	6.35	6: M3PFBS	
7	M3PFBS	302 > 80	6.35	29:M4PFOS	EIS
8	FtS 4:2	327 > 307	7.47	9: M2-4:2FTS	

#	Analyte	Transition	RT	IS	Type
9	M2-4:2FTS	329 > 81	7.47	29:M4PFOS	EIS
10	PFHxA	303 > 269	7.57	10: M5PFHxA	
11	M5PFHxA	318 > 273	7.57	19:M2PFOA	EIS
12	PFPeS	349 > 80	7.88	18: M3PFHxS	
13	PFHpA	363 > 319	8.80	14: M4PFHpA	
14	M4PFHpA	367 > 322	8.80	19:M2PFOA	EIS
15	L-PFHxS	399 > 80	8.94	18: M3PFHxS	
16	br-PFHxS	399 > 80	8.72	18: M3PFHxS	
17	PFHxS Total	399 > 80	8.94	18: M3PFHxS	
18	M3PFHxS	402 > 80	8.94	29:M4PFOS	EIS
19	MPFOA	415 > 370	9.7		REC
20	PFOA	413 > 369	9.7	23: M8PFOA	
21	br-PFOA	413 > 369	9.48	23: M8PFOA	
22	PFOA Total	413 > 369	9.7	23: M8PFOA	
23	M8PFOA	421 > 376	9.7	19: M2PFOA	EIS
24	FtS 6:2	427 > 407	9.66	25: M2-6:2FTS	
25	M2-6:2FTS	429 > 409	9.66	29:M4PFOS	EIS
26	PFHpS	449 > 80	9.78	33: M8PFOS	
27	PFNA	463 > 419	10.41	33: M8PFOS	
28	M9PFNA	472 > 427	10.41	19: M2PFOA	EIS
29	M4PFOS	501 > 80	10.45		REC
30	PFOS	499 > 80	10.45	33: M8PFOS	
31	br-PFOS	499 > 80	10.27	33: M8PFOS	
32	PFOS Total	499 > 80	10.45	33: M8PFOS	
33	M8PFOS	507 > 80	10.45	29: M4PFOS	EIS
34	FtS 8:2	527 > 507	10.99	38: M2-8:2FTS	
35	M2-8:2FTS	529 > 509	10.99	29:M4PFOS	EIS
36	M2PFDA	515 > 470	11.00		REC
37	PFDA	513 > 469	11.00	38: M6PFDA	
38	M6PFDA	519 > 474	11.00	36: M2PFDA	EIS
39	PFNS	549 > 80	11.02	33:M8PFOS	
40	NMeFOSAA	570 > 419	11.41	41: D3-NMeFOSAA	
41	d3-NMeFOSAA	573 > 419	11.41	36: M2PFDA	EIS
42	PFOSA	498 > 78	11.48	29: M8FOSA	
43	M8FOSA	506 > 78	11.48	19: M2PFOA	EIS
44	PFUnDA	563 > 519	11.51	41: M7-PFUDA	
45	M7-PFUDA	570 > 525	11.51	36: M2PFDA	EIS
46	PFDS	599 > 80	11.51	33:M8PFOS	
47	NEtFOSAA	584 > 419	11.68	48: d5-NEtFOSAA	

#	Analyte	Transition	RT	IS	Type
48	d5-NEtFOSAA	589 > 419	11.68	36: M2PFDA	EIS
49	PFDoA	613 > 569	11.96	50: MPFDOA	
50	MPFDOA	615 > 570	11.96	36: M2PFDA	EIS
51	PFTriA	663 > 619	12.34	50: MPFDOA	
52	PFTeA	713 > 669	12.6	53: M2PFTEDA	
53	M2PFTEDA	715 > 670	12.6	36: M2PFDA	EIS
54	M3HFPO-DA	329>285	7.97	19: M2PFOA	EIS
55	HFPO-DA	332>287	7.97	54: M3HFPO-DA	
56	ADONA	377>251	8.00	23: M8PFOA	
57	PFHxDA	813>769	13.20	59: M2PFHxDA	
58	PFODA	913>869	13.50	59: M2PFHxDA	
59	M2PFHxDA	815>770	13.20	36:M2PFDA	EIS
60	NEtFOSA	526>169	11.00	61: NMeFOSA	
61	NMeFOSA	512>169	10.50	63: d3-NMeFOSA	
62	d3-NMeFOSA	515>169	10.50	29: M4PFOS	EIS
63	d5-NEtFOSA	531>169	11.00	29: M4PFOS	EIS
64	NMeFOSE	556>122	11.25	66: d7-NMeFOSE	
65	NEtFOSE	570>136	10.75	67: d9-NEtFOSE	
66	d7-NMeFOSE	563>126	11.25	29: M4PFOS	EIS
67	d9-NEtFOSE	579>142	10.75	29: M4PFOS	EIS
68	FtS 10:2	627>607	11.50	25: M2-6:2FTS	
69	PFDoS	699>99	12.50	33: M8PFOS	

APPENDIX C

PREVIOUS ENVIRONMENTAL REPORTS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

For

130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Prepared For:

130 Saint Felix Street LLC
1010 Avenue of the Americas, Fourth Floor
New York, New York 10018

Prepared By:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001

LANGAN

May 2015
Langan Project No. 170366001

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EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by 130 Saint Felix Street LLC (the "User") to prepare this Phase I Environmental Site Assessment (ESA) for the property located at 130 Saint Felix Street in Brooklyn, New York (the "Subject Property"). The Subject Property is identified as Brooklyn (Kings County) Tax Block 2111, Lot 40. The about 12,500-square-foot Subject Property is developed with an asphalt-paved parking lot. The Subject Property is located on an L-shaped city lot bounded by two multi-story Brooklyn Academy of Music buildings to the north, Saint Felix Street followed by multi-story residential buildings to the east, a multi-story, mixed residential and commercial building (One Hanson Place) and a multi-story church building to the south, and Ashland Place followed by an active construction site to the west. New York City Transit (NYCT) subway tunnels are located beneath Lafayette Avenue to the north, Saint Felix Street to the east, and Ashland Place, Fourth Avenue, and Flatbush Avenue to the west and south of the Subject Property. This Phase I ESA was performed in support of the User's due diligence associated with a potential property transaction involving the Subject Property.

This Phase I ESA was conducted using the guidelines of the American Society for Testing and Materials (ASTM) International Practice 1527-13 (Standard Practice for ESA: Phase I ESA Process) and the United States Environmental Protection Agency's (EPA) All Appropriate Inquiry (AAI) Rule (CFT Part 312). Completion of a Phase I ESA in accordance with the ASTM Practice and AAI Rule is needed to qualify for the bona fide prospective purchaser liability protections available under the Comprehensive Environmental Response Compensation and Liability Action (CERCLA). The objective of this Phase I ESA was to attempt to identify the presence or likely presence, use, or release on the Subject Property of hazardous substances or petroleum products as defined in ASTM E1527-13 as a Recognized Environmental Condition (REC).

The Phase I ESA identified the following RECs associated with the Subject Property:

<u>REC 1 – Historical Use of the Subject Property</u>

According to Sanborn maps, the Subject Property has been used as a parking lot since at least 1950. The Department of Finance classification of the Subject Property is as a garage/gasoline station. Auto repair or service activities may have taken place on the Subject Property, which is considered a REC. Additionally, during the site reconnaissance, concrete patches and patched asphalt were observed throughout the Subject Property, which are likely indicative of USTs.

Potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property.

REC 2 – Historical Use of Adjoining and Surrounding Properties

The Environmental Database and Sanborn Map review identified the following notable uses on adjoining and surrounding properties with the potential to impact groundwater and/or soil vapor at the Subject Property:

- Drug manufacturer and medical laboratory from 1938 to 1969 and dry cleaner from 2003 to 2007 (western adjoining);
- Printer from 1915 to 1938 (about 100 feet north);
- Used cars lot from 1938 to 1950 (about 350 feet northeast);
- Laundry from 1950 to 1996 (about 400 feet northeast);
- Filling station from 1969 to 1993 (about 500 feet north);
- Dry cleaner from 1991 to 2012 (about 850 feet east);
- Dry cleaner from 2001 to 2003 (about 550 feet northeast);
- Dry cleaner from 2010 to 2012 (about 600 feet northeast);
- Dry cleaner from 2004 to 2011 (about 600 feet northeast)
- Dry cleaner from 2000 to 2010 (about 700 feet northeast); and
- Dry cleaner from 2007 to 2009 (about 900 feet east).

These historical uses of adjoining and surrounding properties are considered a REC. Unreported releases of solvents, petroleum products, or other hazardous substances associated with these historical uses may have impacted the groundwater and/or soil vapor at the Subject Property.

Historic use of the adjacent sites also results in a spill (NYSDEC Spill No. 0402131) reporting at One Hanson Place on May 18, 2004, when an unknown quantity of No. 2 fuel oil was released due to tank failure. Fuel oil impacts were observed in soil from about 4 to 40 feet below grade surface (bgs). Petroleum free phase product was observed on groundwater, which was measured at about 43 feet bgs. A work plan for delineation and an exposure assessment was submitted to the New York State Department of Environmental Conservation (NYSDEC) in November 2013. The spill was closed by NYSDEC on April 15, 2015; however, closure

documentation was not available for review. Groundwater and/or soil vapor at the Subject Property may have been affected by this spill incident and associated tanks.

Neither Historic RECs (HRECs) nor Controlled RECs (CRECs) were identified.

Chemical containers, ranging in size from about one to five gallons, were observed during the site reconnaissance near the active work area beneath scaffolding in the southwest corner of the Subject Property. Observed chemicals include muriatic acid, acetone, sealant, paint, and cement mix. Stored chemicals at the Subject Property is considered a de minimis condition.

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by 130 Saint Felix Street LLC (the "User") to prepare this Phase I Environmental Site Assessment (ESA) for the property located at 130 Saint Felix Street in Brooklyn, New York (the "Subject Property"). The Subject Property is identified as Brooklyn (Kings County) Tax Block 2111, Lot 40. The about 12,500-square-foot Subject Property is developed with an asphalt-paved parking lot. The Subject Property is located on an L-shaped city lot bounded by two multi-story Brooklyn Academy of Music buildings to the north, Saint Felix Street followed by multi-story residential buildings to the east, a multi-story mixed residential and commercial building (One Hanson Place) and a multi-story church building to the south, and Ashland Place followed by an active construction site to the west. New York City Transit (NYCT) subway tunnels are located beneath Lafayette Avenue to the north, Saint Felix Street to the east, and Ashland Place, Fourth Avenue, and Flatbush Avenue to the west and south of the Subject Property.

This Phase I ESA was performed in support of the User's due diligence associated with a property transaction involving the Subject Property.

The purpose of this Phase I ESA is to accomplish the following:

> (1) Identify Recognized Environmental Conditions (RECs) in connection with the Subject Property, as defined in The Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, which states: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not considered RECs. De minimis conditions are further defined as conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.
>
> (2) Provide services consistent with the United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 312 Subpart C Standards and Practices §312.20 AAI Rule.

1.1 Scope of the Phase I ESA

This Phase I ESA was conducted utilizing a standard of good commercial and customary practice using the local standard of case that is consistent with ASTM International (ASTM) E1527-13. Any significant scope-of-work additions, deletions, or deviations to ASTM E1527-13 are noted in Section 8.0 of this report. In general, the scope of this assessment consisted of obtaining information from the User; reviewing reasonably ascertainable information and environmental data relating to the Subject Property; reviewing maps and records maintained by federal, state, and local regulatory agencies; interviewing persons knowledgeable about the Subject Property; and conducting a site inspection. The specific scope of this assessment included the following:

1. A site reconnaissance to characterize conditions and assess the Subject Property's location with respect to adjoining and surrounding property uses and natural surface features. The reconnaissance included the surrounding roads and observations of surrounding properties from public rights-of-way to identify obvious potential environmental conditions on neighboring properties. The site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Subject Property and then progressing to adjacent and surrounding properties. Photographs taken as part of the site reconnaissance are provided in Appendix A.

2. As per ASTM E1527-13, a user questionnaire was provided to the User to obtain information related to the Subject Property. A copy of the completed questionnaire is provided in Appendix B.

3. A review of environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance. Environmental Data Resources, Inc. (EDR) prepared the environmental database report, which is included in Appendix C.

4. Freedom of Information Act (FOIA) requests were sent to federal, state, and local agencies. As of the date of this report, complete FOIA responses were not received. Any FOIA responses received that alter the conclusions made in this report will be documented in an addendum to this report. Copies of the FOIA requests are included in Appendix D.

5. New York City Department of Buildings (NYCDOB) records and a Planning Commission Zoning Map were reviewed. Available NYCDOB records and Zoning Map are included in Appendices E and F, respectively.

6. Physical characteristics of the Subject Property were determined through referenced sources for topographic, geologic, soils, and hydrologic data.

7. A review and interpretation of aerial photographs, Sanborn Fire Insurance Maps (Sanborn Maps), historical topographic maps, and city directories to identify previous activities on and in the vicinity of the Subject Property. Copies are included in Appendices G, H, I and J, respectively.

8. A review of an Environmental Lien search for the Subject Property. A copy of the environmental lien search report is included in Appendix K.

9. A review of published radon occurrence maps to determine if the Subject Property is located in an area with a propensity for elevated radon levels.

1.2 Assumptions, Limitations, and Exceptions

This Phase I ESA report was prepared for 130 Saint Felix Street LLC for the Subject Property located at 130 Saint Felix in Brooklyn, New York. The report is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any other third party without a written authorization from Langan.

Langan's scope of services, which is described in Section 1.1, was limited to that agreed to with the User and no other services beyond those explicitly stated are implied. The services performed and agreed upon for this effort comports to those prescribed in the ASTM Standard E1527-13. Intrusive sampling (e.g., soil borings and groundwater sampling) was not performed as part of this Phase I ESA.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation was limited to determining if there is reason to suspect the possibility of RECs at the Subject Property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular Subject Property. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary standard of care exercised by professionals performing similar services under similar circumstances within the same jurisdiction.

The conclusions and opinions provided in this report are based solely on the specific activities as required for the performance of ASTM E1527-13 and are intended exclusively for the purpose stated herein, at the specified Subject Property as it existed at the time of our site visit.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Description

The Subject Property is located at 130 Saint Felix Street in the Fort Greene neighborhood of Brooklyn, New York.

The Subject Property is identified as Brooklyn (Kings County) Tax Block 2111, Lot 40. The about 12,500-square-foot Subject Property is developed with an asphalt-paved parking lot. The Subject Property is located on an L-shaped city lot bounded by two multi-story Brooklyn Academy of Music buildings to the north, Saint Felix Street followed by multi-story residential buildings to the east, a multi-story mixed residential and commercial building (One Hanson Place) and a multi-story church building to the south, and Ashland Place followed by an active construction site to the west. New York City Transit (NYCT) subway tunnels are located beneath Lafayette Avenue to the north, Saint Felix Street to the east, and Ashland Place, Fourth Avenue, and Flatbush Avenue to the west and south of the Subject Property. Residential, commercial, and institutional buildings characterize the surrounding area.

According to the United States Geological Survey (USGS) Brooklyn Quadrangle 7.5-minute Series Topographic Map, the Subject Property sits at an elevation of about 45 feet above mean sea level. The Subject Property and surrounding area slope to the southwest toward the Gowanus Canal, which is located about a half mile southwest of the Subject Property. A site location plan is provided as Figure 1 and photographs showing the Subject Property are provided in Appendix A.

2.2 Description of Subject Property Improvements

Improvements at the Subject Property are summarized in the following table:

Site Improvements	
Size of the Subject Property	Approximately 12,500 square feet
Buildings/Spaces/Structures	Asphalt-paved parking lot
Unimproved Areas	None
Surface Water	None
Potable Water Source	Not applicable

Site Improvements	
Sanitary and Storm Sewer Utilities	New York City
Electrical Utilities	Not applicable
Construction Completion Date	Not applicable
General Construction Type	Not applicable
Cooling and Ventilation System Type	Not applicable
Heating System Type	Not applicable
Emergency Power	None identified

2.3 Title Records

Langan researched ownership records for the Subject Property at www.nyc.gov. The New York City Department of Finance – Office of the City Register did not provide ownership records for the Subject Property; however, an easement from October 28, 2013, listed 'One Hanson Place Condominium' as the grantee/buyer and 'CJUF II Hanson LLC' as the grantor/seller of the easement. The current owner of One Hanson Place, the southwestern adjoining property, was listed as 'CJUF II Hanson LLC'.

3.0 USER PROVIDED INFORMATION

3.1 User/Client Questionnaire

A User/Client questionnaire was provided to 130 Saint Felix Street LLC, to inquire about specialized information related to the Subject Property. Adam Zeidel, of Gotham Real Estate Developers, LLC, completed the questionnaire. Mr. Zeidel is not aware of any environmental cleanup liens, land use limitations, or environmental cleanups associated with the Subject Property. The completed User/Client questionnaire is included in Appendix B.

3.2 Previous Environmental Reports

Previous environmental reports were not provided by the client to Langan as part of this Phase I ESA.

4.0 RECORDS REVIEW

4.1 Environmental Records

A copy of regulatory database information was provided by EDR and is included in Appendix C. The EDR report is a listing of sites identified on select federal and state standard source environmental databases within the approximate search radius specified by ASTM Standard Practice for E1527-13. Langan reviewed each environmental database to determine if certain sites identified in the report are suspected to represent a potential impact to the Subject Property. Langan also reviewed "Orphan Sites" listed within the report. Orphan site are those sites that could not be mapped due to inadequate address information. Any orphan sites that were identified by Langan within the ASTM search radii, either during the Subject Property reconnaissance or by cross-referencing to mapped listings, are addressed in the discussion below. All distances to adjacent properties are measured from the perimeter of the Subject Property.

The following table lists the number of sites by database within the prescribed search radius appearing in the EDR Report.

Database Record Summary			
Database Reviewed (Date of government version)	**Minimum Search Area**	**Subject Property listed**	**Number of Sites Within Minimum Search Area**
USEPA DATABASES			
National Priorities List (NPL) (12/16/2014)	1 Mile Radius	No	1
Delisted NPL (12/16/2014)	1/2 Mile Radius	No	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and CERCLIS No Further Remediation Action Planned (NFRAP) (10/25/2013)	1/2 Mile Radius	No	0
Resource Conservation and Recovery Act (RCRA) Corrective Reports (CORRACTS) (12/9/2014)	1 Mile Radius	No	1
RCRA Treatment, Storage, and Disposal Facilities (TSDF) (12/9/2014)	1/2 Mile Radius	No	0
RCRA Generators (12/9/2014)	Subject Property and Adjoining	No	1
Facility Information System (FINDS) Database (1/18/2015)	Subject Property	No	0
Environmental Response Notification System (ERNS) (9/29/2014)	Subject Property	No	0

Database Record Summary			
Database Reviewed (Date of government version)	**Minimum Search Area**	**Subject Property listed**	**Number of Sites Within Minimum Search Area**
Engineering Controls (EC) Site Lists (9/18/2014)	Subject Property	No	0
Institutional Controls (IC) Site Lists (9/18/2014)	Subject Property	No	0
New York State Department of Environmental Conservation (NYSDEC) DATABASES			
Inactive Hazardous Waste Disposal Site (SHWS) (3/25/2015)	1 Mile Radius	No	4
Hazardous Substance Waste Disposal Site Inventory (HSWDS) (1/1/2003)	1/2 Mile Radius	No	0
Solid Waste or Landfill Facilities (SWF/LF) (4/8/2015)	1/2 Mile Radius	No	2
Leaking Tanks (LTANKS) (3/19/2015)	1/2 Mile Radius	No	55
SPILLS Information Database (NY SPILLS) (3/19/2015)	1/8 Mile Radius	No	48
EC Site Lists (3/25/2015)	Subject Property	No	0
IC Subject Site Lists (3/25/2015)	Subject Property	No	0
Voluntary Cleanup Program (VCP) (3/25/2015)	1/2 Mile Radius	No	0
Brownfields (3/25/2015)	1/2 Mile Radius	No	3
Petroleum Bulk Storage Facilities (PBS) Underground Storage Tanks (UST) and Aboveground Storage Tanks (AST) Databases (3/30/2015)	Subject Property and Adjoining	No	4
Chemical Bulk Storage (CBS) UST and AST Databases (1/1/2002)	Subject Property and Adjoining	No	0
Major Oil Storage Facilities (MOSF) UST and AST Databases (1/1/2002)	Subject Property and Adjoining	No	0
Registered Drycleaners (DRYCLEANERS) (1/12/2015)	1/4 Mile Radius	No	4
EDR (PROPRIETARY) DATABASES			
EDR Former Manufactured Gas Plant (MGP) Sites (NA)	1 Mile Radius (N/A)	No	2
Historical Cleaners (NA)	1/4 Mile Radius	No	14

NA Not Applicable; databases with a "Not Applicable" Minimum Search Radius are databases reviewed as part of the Phase I ESA but not required as per ASTM E1527-13.

A description of the reviewed databases is provided in the EDR Report (Appendix C). A summary of Subject Property database listings and other sites identified within the prescribed search area is presented below.

4.1.1 Federal Agency Database Findings

The Subject Property and/or sites within their respective minimum search distances as specified by ASTM E1527-13 were not listed in the following Federal Agency databases: Delisted NPL, CERCLIS, RCRA TSDF, FINDS, ERNS, EC, or IC.

The following summary describes the sites that were identified within the designated search radii:

National Priorities List

The NPL database identifies sites for priority cleanup under the Superfund Program. The Subject Property was not listed in the NPL database, however one listing was identified within the minimum search distance. The Gowanus Canal is identified in the NPL database in relation to sediments contaminated with PCBs and coal tar. The Gowanus Canal (EPA ID# NYN000206222) is located more than 2,700-feet southwest and down-gradient from the Subject Property. Due to the distance and down-gradient location from the Subject Property, the listing is not considered a REC.

CORRACTS Facilities List

CORRACTS is a list of handlers with RCRA Corrective Action Activity. This database identifies nationally-defined corrective action core events that have occurred for every handler that has had corrective action activity. The Subject Property was not listed in this database; however, one site, Patterson Chemical Co. Inc., was identified within one mile of the Subject Property. Patterson Chemical Co. Inc. is located more than 5,000 feet southwest and down-gradient from the Subject Property and is not considered a REC.

RCRA Generators

The RCRA Info database is USEPA's comprehensive information system, providing access to data supporting the RCRA of 1976 and the Hazardous Waste Amendments (HSWA) of 1984. The database includes selective information on sites that generate, transport, store, treat and/or dispose of hazardous waste as defined by the RCRA. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste or over 1 kg of acutely hazardous waste per month; small quantity generators (SQGs) generate between 100 kg and 1,000 kg of

hazardous waste per month; conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste or less than 1 kg of acutely hazardous waste per month, and RCRA NonGen, which do not presently generate hazardous waste.

The Subject Property was not listed in the database, however one listing was identified on an adjoining property and is described below:

Site Name: HSB BANK USA
Site Address: 1 Hanson Place – 2nd Floor
Location: This site adjoins the Subject Property to the southwest.
Description: This facility was listed as an CESQG in 2003, 2006, and 2007. Generated hazardous waste codes included D001 (non-listed ignitable wastes), D002 (non-listed corrosive wastes), D006 (cadmium), and F003 (spent non-halogenated solvents). No violations were listed for the facility. Due to the lack of information regarding a release associated with the waste generation, no violations associated with the listing, and the down-gradient location from the Subject Property, the listing is not considered a REC.

4.1.2 State Agency Database Findings

The Subject Property and sites within the respective minimum search distances as specified by ASTM E1527-13 were not listed in the following State Agency databases: HSWDS, EC, IC, VCP, CBS, or MOSF. The following summary describes the sites that were identified within the designated search radii:

State Hazardous Waste Sites (SHWS)

The SHWS database is a comprehensive listing of sites that are the state's equivalent to CERCLIS. These consist of priority sites planned for cleanup using state funds (state equivalent of Superfund) and/or potentially responsible parties.

The Subject Property was not listed in the SHWS database; however four properties, the Gowanus Canal, Former O.Z. Electrical (198 Douglass Street), Brooklyn Navy Yard (Kent Avenue), and Brooklyn Navy Yard Development Corp. (Flushing Avenue and Cumberland Street), were identified within one mile of the Subject Property. The SHWS sites are all located more than 2,700 feet and down-gradient from the Subject Property, and are not considered RECs.

Solid Waste or Landfill Facilities (SWF/LF) Database

The Solid Waste or Landfill Facilities (SWF/LF) database is a comprehensive listing of State permitted/recorded solid waste facilities. The Subject Property was not listed in the SWF/LF database; however, two properties, Baltic Recycling Corp. (524 – 26 Baltic Street) and Basin Haulage Inc. (462 – 470 Baltic Street) were identified within 1/2 mile of the Subject Property. The SWF/LF sites are located more than 2,200 feet and down-gradient from the Subject Property, and are not considered RECs.

Leaking Underground Storage Tanks Database

The LTANKS database contains an inventory of reported leaking storage tank incidents, including leaking underground storage tanks (USTs) and aboveground storage tanks (ASTs). As per ASTM E1527-13, the approximate minimum search distance required for LTANKS incidents is within ½ mile of the Subject Property. The Subject Property was not listed in the LTANK database.

A total of 55 LTANK sites were identified within a 1/2 mile radius of the Subject Property. Out of the 55 LTANK sites, 51 have been granted closed status by the NYSDEC, which indicates that they have been remediated to the satisfaction of the NYSDEC, and are therefore, not considered RECs.

Four LTANK incidents remain open. Of the four open LTANK incidents, three are located more than 1,400 feet and cross- or down-gradient from the Subject Property, and are not considered RECs. The remaining incident is described below:

Site Name: HSBC BANK
Site Address: 1 Hanson Place
Site Location: Adjoins the Subject Property to the southwest.
Description: A spill (NYSDEC Spill No. 0402131) was reported at One Hanson Place on May 18, 2004, when an unknown quantity of No. 2 fuel oil was released due to tank failure. According to the NYSDEC Spills Database, soil within the area was affected. According to the EDR report, two 7,000-gallon ASTs, believed to have been installed in 1928, were located in an oil tank room that has been completely filled with concrete. The ASTs are believed to have been abandoned in place. Borings were installed onsite and adjacent to the NYCT subway tunnel (underlying Ashland Place), located about 7 feet west of the site. Fuel oil impacts were observed in soil from about 4 to 40 feet bgs. About 0.5 to 1 inch of light non-

aqueous phase liquid (LNAPL) was observed in groundwater, measured at about 43 feet bgs. A work plan for delineation and exposure assessment was submitted to the NYSDEC by Environmental Resources Management (ERM) in November 2013. The spill was closed on April 14, 2015; however, no spill closure documentation was available for review. Soil, groundwater, and/or soil vapor at the Subject Property may have been affected by this open LTANKS incident; therefore, it is considered a REC .

SPILLS Database

The Spills database, maintained and updated by NYSDEC, is an inventory of sites where spills have been identified and reported to the NYSDEC. The Subject Property was not listed in the Spills database.

A total of 48 SPILLS sites were identified on surrounding properties located within 1/8-mile of the Subject Property. Out of the 48 SPILLS sites, 47 have been granted closed status by the NYS DEC, which indicates that they have been remediated to the satisfaction of the NYSDEC and are not considered RECs.

The remaining open Spills incident is located at a commercial parking lot located at 19 Lafayette Avenue, about 350 feet northwest (cross-gradient) from the Subject Property. According to the EDR report review and the NYSDEC Spills database, a spill (NYSDEC Spill No. 1401845) was reported at the site on May 20, 2014 due to equipment failure. An unknown quantity of unknown petroleum was encountered in soil. The contaminated soil was detected whilst Langan was onsite undertaking an unrelated geotechnical investigation. Sanborn maps of the area indicate that a 10,000-gallon tank may be located on the property. The cleanup is pending. According to Langan records regarding the spill, impacts are likely limited to soil media at the site, as no free product was measured on the groundwater table. This open spill is not considered a REC, as groundwater and/or soil vapor at the Subject Property was likely not affected.

Brownfield Sites

Brownfield sites are properties at which redevelopment or re-use may be complicated by the presence or potential presence of hazardous substances, pollutants, or contamination. The Subject Property was not listed as a Brownfield site; however, three Brownfield sites, Atlantic Terrace Cornerstone Project (669 Atlantic Avenue), Cinderella Cleaners (248 Flatbush Avenue), and 29 Flatbush Avenue, were identified within 1/2 mile of the Subject Property. All three sites

are located more than 900 feet cross- or down-gradient from the Subject Property, and are not considered RECs.

PBS UST and AST Database

The Petroleum Bulk Storage (PBS) UST and AST database contains records of registered USTs and/or ASTs. A registered PBS UST and/or AST does not constitute a REC, in and of itself. However, properties listed on the UST and/or AST lists with a reported leak, spill, or release could constitute a REC with respect to the Subject Property. As per ASTM E1527-13, the minimum search distance required for USTs and ASTs is the Subject Property and adjoining properties.

The Subject Property was not listed in the PBS database, however, four adjoining properties were listed and are described below:

Site Name: BROOKLYN ACADEMY OF MUSIC – SOUTH
Site Address: 113 Flatbush Avenue
Site Location: Adjoins Subject Property to the west.
Description: The registered tanks listed in the PBS database (PBS No. 2-612310) are in the table below:

Tank ID	Tank Location	Product Stored	Status	Capacity (Gal.)
001	Underground	No. 2 fuel oil	Closed - Removed	275
002	Underground	No. 2 fuel oil	Closed - Removed	275
003	Underground	No. 2 fuel oil	Closed - Removed	1,000

No spills or LTANK incidents are associated with the USTs. Because of the lack of reported releases associated with these tanks, the PBS listing is not considered a REC.

Site Name: BROOKLYN MUSIC SCHOOL
Site Address: 126 Saint Felix Street
Site Location: Adjoins Subject Property to the northeast
Description: PBS No. 2-246581 corresponds to an in-service 2,000-gallon capacity UST containing No. 2 fuel oil. No spills or LTANK incidents are associated with the

UST. Because of the lack of reported releases associated with these tanks, the PBS listing is not considered a REC.

Site Name: ONE HANSON PLACE
Site Address: 1 Hanson Place
Site Location: Adjoins Subject Property to the southwest
Description: PBS No. 2-607998 corresponds to two unregulated closed-in-place 7,000-gallon and 7,500-gallon capacity ASTs, each containing No. 2 fuel oil. As discussed above, these ASTs are associated with an open LTANKS incident on the site, which is considered a REC.

Site Name: THE BROOKLYN ACADEMY OF MUSIC ANNEX
Site Address: 321 Ashland Place
Site Location: Adjoins Subject Property to the northwest
Description: PBS No. 2-611272 corresponds to a temporarily out of service 1,900-gallon capacity AST containing No. 6 fuel oil, installed in January 1985 and closed in February 2010. Based on an absence of documented violations, this UST is not considered a REC.

Registered Drycleaners (DRYCLEANERS)

The DRYCLEANERS database is a listing of registered dry cleaning facilities. Dry cleaning facilities are associated with the use of tetrachloroethylene (PCE), a solvent that has the potential to infiltrate groundwater and can readily migrate to surrounding properties. The Subject Property was not listed in the DRYCLEANERS database; however, four DRYCLEANERS sites were identified within 1/4 mile of the Subject Property. Two of these dry cleaners are located more than 500 feet and down-gradient of the Subject Property, and are not considered RECs. The remaining two dry cleaner listings are discussed below:

Site Name: FRENCH GARMENTS CLEANERS
Site Address: 85 Lafayette Avenue
Location: About 790 feet northeast (up-gradient) of the Subject Property
Description: Registration effective date was listed as July 15, 2002. The facility appears to have been shut down. Generated waste information was not provided for the listing.

Site Name: DIFFERENCE CLEANERS II

Site Address: 696 Fulton Street

Location: About 850 feet east (up-gradient) of the Subject Property

Description: Registration effective date was not listed. The site was also listed as a RCRA-LQG in 1991, a RCRA Non-Gen in 1999, a RCRA-CESQG in 2006m and a RCRA-SQG in 2007. According to RCRA and manifest listings for the site, generated hazardous waste include spent halogenated solvents (F002). No violations were listed for the site.

Details regarding operations conducted at this site and chemicals used were not provided for the listings. It is unknown if dry cleaning operations are currently performed, or were performed in the past, on these properties; therefore, these dry cleaner listings are considered a REC.

4.1.3 Other Database Findings

Manufactured Gas Plant Sites

The MGP sites database is a proprietary database that includes records of historical manufactured coal gas plants compiled by EDR. The Subject Property was not listed in the MGP database; however, two sites, Fulton Works (Degraw Street and Nevins Street) and Fulton Municipal Works (Nevins, Degraw and Sackett Streets) were identified within a one-mile radius of the Subject Property. Both listings are located more than 2,900 feet down-gradient from the Subject Property, and are not considered a RECs.

Historical Cleaners

The historical dry cleaner sites database is a proprietary database that includes records of dry cleaner sites compiled by EDR. The Subject Property was not listed in the historical dry cleaners database. Fourteen historical dry cleaners sites were identified within 1/4 mile of the Subject Property. Six of these historical dry cleaners sites were located more than 200 feet cross- or down-gradient of the Subject Property, and are not considered RECs. The remaining eight historical dry cleaners sites are discussed below:

Site Address: 666 Fulton Street

Location: About 550 feet northeast (up-gradient) of the Subject Property

Description: 'Fulton One Laundromat Inc' was listed at the site for the years 2001, 2002, and 2003.

Site Address: 668 Fulton Street

Location: About 600 feet northeast (up-gradient) of the Subject Property
Description: 'Big Apple Cleaners' was listed at the site for the year 2010, and 'Yes Cleaners' was listed at the site for the years 2011 and 2012.

Site Address: 674 Fulton Street
Location: About 600 feet northeast (up-gradient) of the Subject Property
Description: 'Washington Courtney Fashion Studio' (or some variation thereof) was listed at the site for the years, 2004, 2010, and 2011.

Site Address: 81 Lafayette Avenue
Location: About 700 feet northeast (up-gradient) of the Subject Property
Description: 'Wash & Play Lotto Laundromat' was listed at the site for the years 2000, 2002, 2003, and 2010.

Site Address: 85 Lafayette Avenue
Location: About 800 feet northeast (up-gradient) of the Subject Property
Description: 'French Garment Cleaners' was listed at the site for the years 2003, 2006, and 2007.

Site Address: 696 Fulton Street
Location: About 850 feet east (up-gradient) of the Subject Property
Description: 'Different Cleaners' was listed at the Subject Property for the years 2005 through 2008, and 2010 through 2012.

Site Address: 769 Fulton Street
Location: About 900 feet east (up-gradient) of the Subject Property
Description: 'Louisma Laundromat' was listed at the site for the years 2007 through 2009.

Details regarding operations conducted at these sites, chemicals used, and reported violations were not provided for the listings. It is unknown if dry cleaning operations were performed on these properties in the past; therefore, these historical dry cleaner listings are considered a REC.

4.1.4 Local Regulatory Agency Findings

Freedom of Information Act Requests

FOIA requests were submitted to the following federal, state, and local agencies via written correspondence on May 14, 2015:

- New York City Department of Environmental Protection (NYCDEP);
- New York City Department of Health (NYCDOH);
- New York City Fire Department (FDNY);
- New York State Department of Health (NYSDOH);
- NYSDEC; and
- USEPA, Region 2.

Complete responses to the FOIA requests have not yet been received. Copies of the FOIA requests and any responses received are included in Appendix D. Should pending responses alter the conclusions provided within this report, we will issue the modified conclusions as an addendum.

New York City Department of Buildings

Langan conducted a records search through the NYCDOB online query system on May 13, 2015, for the Subject Property. The following is a summary of the findings.

The Department of Finance classification for the Subject Property is 'G6-GARAGE/GAS STAT'N'. Certificates of Occupancy (COs) and boiler records were not listed for the Subject Property.

Classification of the Subject Property as a garage/gas station is considered a REC, as undetected releases of chemicals associated with these operations may have adversely impacted soil, groundwater, and/or soil vapor on the Subject Property.

Copies of the NYCDOB property profile and other pertinent NYCDOB records are provided in Appendix E.

New York City Department of City Planning

According to the New York City Department of City Planning (NYCDCP) Zoning Map 16c, the Subject Property is located in a C6-1 commercial district, which permits a wide range of high-

bulk commercial uses and allows a floor area ratio (FAR) of 6.0. The Subject Property does not contain an E-Designation for Hazardous Materials, Air Quality or Noise. A copy of the zoning map is provided in Appendix F.

4.2 Physical Setting Sources

4.2.1 Topography

According to the United States Geological Survey (USGS) Brooklyn Quadrangle 7.5-minute Series Topographic Map, the Subject Property sits at an elevation of about 45 feet above mean sea level. The general topographic gradient of the Subject Property and surrounding properties slopes to the southwest toward the Gowanus Canal, which is located about a half mile southwest of the Subject Property.

4.2.2 Geology

Geological surface features (e.g., rock outcroppings) were not observed on the Subject Property. Based on a review of the "Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York, and Parts of Bergen and Hudson Counties, New Jersey" (Baskerville Map), dated 1992 and prepared by Charles A. Baskerville, the underlying bedrock formation in this area is the Hartland Formation, which is typically encountered in the area of the Subject Property at depths greater than 100 feet. The Harland Formation consists of gray schist with quartz, biotite, and muscovite. Based on geotechnical investigations conducted by Langan within the area, the depth to bedrock is greater than 90 feet below ground surface (bgs).

4.2.3 Hydrology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, the presence of artificial fill, and variability in local geology and groundwater sources or sinks.

Based on the general topography of the surrounding area, inferred groundwater flow is to the southwest toward the Gowanus Canal, which is located about a half mile southwest of the Subject Property. According to a Phase II Environmental Site Assessment performed by

Langan on the northern adjoining property (321 Ashland Place) in 2008, depth to groundwater is about 38 feet bgs.

5.0 HISTORICAL USE INFORMATION

Langan reviewed available historic resources (including aerial photographs, Sanborn and topographic maps, and city directories) dated 1887 to 2013. Findings of the reviews are presented below.

5.1.1 Aerial Photographs

Langan reviewed aerial photographs of the Subject Property and surrounding areas for the years 1924, 1951, 1954, 1961, 1966, 1974, 1978, 1980, 1984, 1991, 1994, 2006, 2009, and 2011. The photographs indicate that the Subject Property was located in a densely developed urban by as early as 1924. In the 1924 aerial photograph, the Subject Property, and adjoining and surrounding properties appear to be improved with one- to two-story buildings. In the 1951 and 1954 aerial photographs, two buildings are shown north and south of the Subject Property; however, due to the poor quality of the image, it is unclear whether buildings were still present on the Subject Property. From 1961 to 2011, a parking lot is shown on the Subject Property. From 1974 to 2011, a parking lot occupies the triangular-shaped western adjoining property (across Ashland Place). From 1924 to 2009, the Long Island Rail Road (LIRR) is shown to the southeast of the Subject Property. In the 2011 aerial photograph, the LIRR is no longer shown and construction of the Barclays Center to the southeast of the Subject Property is shown.

The review of the aerial photographs did not identify RECs. Copies of the aerial photographs are included in Appendix G.

5.1.2 Sanborn Fire Insurance Maps

A search for historical fire insurance maps for the Subject Property and surrounding properties for the years 1887, 1904, 1915, 1938, 1950, 1969, 1977, 1979 through 1982, 1986 through 1989, 1991, 1992, 1993, 1995, 1996, and 2001 through 2007, was conducted by EDR and reviewed by Langan. Sanborn Maps constitute a database of prior site uses of real property for many cities and towns in the United States. The Subject Property and surrounding area were shown as developed in all reviewed maps.

Historical use of the Subject Property includes the following:

- From 1887 to 1915, the Subject Property was completely occupied by several multi-story dwellings (with basements depicted beginning in the 1904 Sanborn map).
- In 1938, the western portion of the Subject Property appeared blank, and the eastern portion of the Subject Property was occupied by four multi-story dwellings.

- From 1950 to 2007, a parking lot was located on the Subject Property, with a small single-story building located in the southwestern corner of the Subject Property beginning in 1995.

The Subject Property has been used as a parking lot since at least 1950. Considering the Department of Finance classification of the Subject Property as a garage/gas station, it is likely that auto repair or service activities also took place on the Subject Property, which is considered a REC. Potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property.

Surrounding properties have generally been occupied by dwellings, stores, parking lots, performing arts spaces, and a church, and included the following notable uses:

- Block 2111, Lot 15, located about 100 feet north of the Subject Property, contained a printer (part of the Academy of Music) from 1915 to 1938;
- Block 2113, Lots 22 and 31, located about 350 feet northeast of the Subject Property, contained a used cars lot from 1938 to 1950;
- Block 2113, Lot 37, located about 400 feet northeast of the Subject Property, contained a laundry from 1950 to 1996;
- Block 2110, Lot 3, adjoining the Subject Property to the west, contained a drug manufacturer and medical laboratory from 1938 to 1969;
- Block 2108, Lot 1, located about 500 feet north of the Subject Property, contained a filling station from 1969 to 1993;

Historic uses of these adjoining and surrounding properties is considered a REC, as potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted groundwater and/or soil vapor at the Subject Property.

Copies of the maps are included as Appendix H.

5.1.3 Historical USGS Topographic Quadrangles

Langan reviewed historical USGS Topographic Quadrangles obtained from EDR for information regarding past uses of the Subject Property. Quadrangle maps were available for the years 1900, 1924, 1947, 1956, 1967, 1979, and 1995. Based on a review of the historic topographic maps, the Subject Property was developed within a dense urban area as early as 1900. Beginning in the 1900 map, Prospect Park can be seen to the south of the Subject Property. Beginning in 1947, the US Navy Yard can be seen to the northeast and the Gowanus Canal to

the southwest of the Subject Property. Beginning in 1956, Long Island University can be seen to the northwest and Brooklyn Hospital to the north of the Subject Property

The review of the historic topographic maps did not identify RECs. Copies of the topographic maps are provided in Appendix I.

5.1.4 City Directories

The City Directory Abstract, obtained from EDR, is a review of available business directories, including city, cross-reference, and telephone directories, at approximately five-year intervals for the years spanning 1928 through 2013.

From 1928 to 1997, several residences were listed for the Subject Property. Multiple commercial businesses, schools, churches, and residences were listed at adjoining and surrounding properties.

The review of city directories did not identify RECs. A copy of the City Directory Abstract is provided in Appendix J.

5.1.5 Environmental Lien Search

Langan contracted EDR to conduct an Environmental Lien search for the Subject Property. The results of the search, which included a compilation of available data and verification of the findings with the appropriate regulatory authorities, revealed that there are no Environmental Liens or other Activity and Use Limitations (AUL) associated with the Subject Property. A copy of the Environmental Lien Search is provided in Appendix K.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

The site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Subject Property and then progressing to the adjacent and surrounding properties. The assessment of the adjacent and surrounding properties was limited to identifying, if possible, any indications of past or current use that may involve the use, storage, disposal, or generation of hazardous substances or petroleum products; noting the general type of current use; the general topography of the surrounding area; and providing a general description of adjoining or adjacent structures.

See Appendix A for site reconnaissance photos.

6.1.1 Date and Time of Inspections

The site reconnaissance was performed at 1:00 pm on May 21, 2015, by Natasha Bell of Langan. The weather at the time of the inspection was overcast and approximately 55°F.

6.1.2 General Site Setting and Reconnaissance Observations

The approximately 12,500-square-foot Subject Property is developed with an asphalt-paved parking lot. At the time of the site reconnaissance, scaffolding surrounding the southwest adjoining building (One Hanson Place) was observed on the Subject Property, and various construction materials were located in the southwest corner of the Subject Property. The condition of asphalt beneath the stored construction materials could not be observed, and is considered a data gap.

Minor vegetation was observed along the northern and southern boundaries of the Subject Property. Three two-yard containers and one about 65-gallon container, all containing trash (paper, cardboard, black trash bags, furniture, etc.), were observed along the northern boundary of the Subject Property. Two drains were observed on the Subject Property: one in the northwestern corner and one in the center of the Subject Property. The drains appeared to be full of trash and leaves. One square metal-covered hatch, measuring about four square feet, was observed in the northwestern portion of the Subject Property. Two square metal-covered hatches, each measuring about one square foot, were observed in the center of the Subject Property. One of the hatches appeared to contain soil and debris (the other hatch appeared to be welded shut). One monitoring well was observed along the southern boundary (adjoining One Hanson Place) of the Subject Property.

Concrete patches and patched asphalt were observed throughout the Subject Property, which are likely indicative of USTs. The likely presence of unregistered USTs at the Subject Property, in conjunction with the Department of Finance classification of the Subject Property as a garage/gasoline station, is considered a REC, as potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property.

The Subject Property was bounded by two multi-story Brooklyn Academy of Music buildings to the north, a chain-linked fence followed by Saint Felix Street to the east, a multi-story mixed residential and commercial building (One Hanson Place) and a multi-story church building to the south, and a chain-linked fence followed by Ashland Place to the west.

Pits, Ponds, Lagoons

Pits, ponds and lagoons were not observed at the Subject Property.

Pools of Liquid

Pools of liquid were not observed at the Subject Property.

Storm Drains, Wells, and Cisterns

Two storm drains were observed at the Subject Property. Both drains appeared to be filled with trash and leaves. One monitoring well was observed in the center of the Subject Property. One monitoring well was observed along the southern boundary (adjoining One Hanson Place) of the Subject Property.

Polychlorinated Biphenyl (PCB) Transformers and Suspect Equipment

PCT transformers and suspect equipment were not observed at the Subject Property.

Storage Containers and Drums

Three two-yard containers and one about 65-gallon container, all containing trash (paper, cardboard, black trash bags, furniture, etc.), were observed along the northern boundary of the Subject Property.

Chemical containers, ranging in size from about one to five gallons, were observed near the active work area beneath scaffolding in the southwest corner of the Subject Property. Observed chemicals include muriatic acid, acetone, sealant, paint, and cement mix. Stored chemicals at the Subject Property is considered a de minimis condition.

Air Emissions or Wastewater Discharges

Air emissions or wastewater discharges were not observed at the Subject Property.

Floor Drains, Sumps, and Sewage Ejector Pit

Floor drains, sumps, and sewage ejector pits were not observed at the Subject Property.

USTs or ASTs

A fill port (labeled as 'FUEL OIL FILL #2') and vent pipe were observed at the northern wall of the southwestern adjoining building (One Hanson Place). The fill port and vent pipe are likely associated with one or both of the known closed-in-place ASTs located there. As mentioned in Section 4.1, a spill involving the ASTs was reported at One Hanson Place in 2004, when an unknown quantity of No. 2 fuel oil was released due to tank failure. Soil, groundwater, and/or soil vapor at the Subject Property may have been affected by this spill incident and associated ASTs; therefore, it is considered a REC.

Stained or Discolored Soil

The Subject Property is entirely covered with asphalt or concrete. Stained or discolored soil was not observed during the Phase I site reconnaissance.

Leachate or Seeps

Leachate or seeps were not observed at the Subject Property.

Adjoining and Surrounding Property Uses

The Subject Property was bounded by two multi-story Brooklyn Academy of Music buildings to the north, Saint Felix Street followed by multi-story residential buildings to the east, a multi-story, mixed residential and commercial building (One Hanson Place) and a multi-story church building to the south, and Ashland Place followed by an active construction site to the west.

Residential, commercial, and institutional buildings characterize the surrounding area.

Site Reconnaissance Conclusions

The following conclusions were made based on the site Reconnaissance:

- Concrete patches and patched asphalt were observed throughout the Subject Property, which are likely indicative of USTs. The likely presence of unregistered USTs at the

Subject Property, in conjunction with the Department of Finance classification of the Subject Property as a garage/gasoline station, is considered a REC, as potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property.

- Soil, groundwater, and/or soil vapor at the Subject Property may have been affected by ASTs and associated known spill incident at the southwestern adjoining property (One Hanson Place); therefore, it is considered a REC.
- Chemical containers, ranging in size from about one to five gallons, were observed near the active work area beneath scaffolding in the southwest corner of the Subject Property. Observed chemicals include muriatic acid, acetone, sealant, paint, and cement mix. Stored chemicals at the Subject Property is considered a de minimis condition.
- The condition of asphalt beneath the stored construction materials in the southwest corner of the Subject Property could not be observed, and is considered a data gap.

7.0 INTERVIEWS

7.1 Subject Property Owner/Occupant

The owner of the Subject Property was not interviewed as part of this Phase I ESA.

7.2 Owners/Tenants of Adjacent Properties

Owners/tenants of adjacent properties were not interviewed as part of this Phase I ESA.

8.0 ADDITIONAL SERVICES

8.1 Radon

Radon is a colorless, odorless radioactive gas that results from the natural breakdown of uranium minerals in soil, rock, and water, which subsequently enters the atmosphere. It can concentrate in buildings, entering through cracks and other penetrations of a building foundation. Some areas are more likely to have elevated concentrations of radon than others, reflecting subsurface lithologic conditions.

According to the USEPA radon map, New York (including Brooklyn) is considered a Zone 3 area, which indicates the predicted average indoor radon levels are less than 2 picoCuries per liter (pCi/L). The NYSDOH maintains a database of radon test results on a local and county level. According to the NYSDOH, 441 basement and 102 first floor radon tests have been conducted in Kings County with results indicating that 9.8% of basements and 2.0% of living areas have radon concentrations above the USEPA action level of 4 pCi/L. According to Federal Area Radon Information for Kings County, as reported in the EDR Radius Map Report, a total of 51 radon tests have been conducted in Bronx County, with an average radon level of 0.750 pCi/L in living areas. Based on this information, it is unlikely that elevated levels of radon gas are present at the Subject Property.

8.2 ACM, LBP and PCBs

A formal survey to identify asbestos-containing material (ACM), lead-based paint (LBP) and/or PCB-containing material was not conducted as part of this Phase I ESA.

9.0 DEVIATIONS AND DATA GAPS

9.1 Deviations

Langan has performed a Phase I ESA of the Subject Property utilizing a standard of good commercial and customary practice that is consistent with the ASTM E1527-13. Significant deviations were not made to the above referenced standards.

9.2 Data Gaps

In order to address data gaps, additional sources of information may be consulted. According to ASTM E 1527-13, Section 8.3.2.3, "historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for the exclusion."

This Phase I ESA was completed with the following data gaps:

- Complete responses to all FOIA requests have not been received.
- The condition of asphalt beneath the stored construction materials in the southwest corner of the Subject Property could not be observed during the site reconnaisance.

Sufficient information has been provided from other data sources to render conclusions regarding the presence of RECs at the Subject Property. As such, this data gas is not expected to impact the overall conclusions of the Phase I ESA. Should additional information provided in the FOIA responses alter the conclusions of this Phase I ESA, we will issue an addendum to this report.

10.0 FINDINGS, CONCLUSIONS, AND OPINIONS

This Phase I ESA was conducted in accordance with the ASTM International (ASTM) Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process), which also satisfies the United States Environmental Protection Agency's (USEPA) All Appropriate Inquiry (AAI) Rule needed to qualify for the bona fide prospective purchaser liability protections available under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). The objective of this Phase I ESA was to attempt to identify the presence or likely presence, use, or release on the Subject Properties of hazardous substances or petroleum products as defined in ASTM E1527-13 as a recognized environmental condition (REC).

The Phase I ESA identified the following RECs associated with the Subject Property:

<u>REC 1 – Historical Use of the Subject Property</u>

According to Sanborn maps, the Subject Property has been used as a parking lot since at least 1950. The Department of Finance classification of the Subject Property is as a garage/gasoline station. Auto repair or service activities may have taken place on the Subject Property, which is considered a REC. Additionally, during the site reconnaissance, concrete patches and patched asphalt were observed throughout the Subject Property, which are likely indicative of USTs. Potential releases of petroleum products, solvents, and/or other hazardous materials may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property.

<u>REC 2 – Historical Use of Adjoining and Surrounding Properties</u>

The Environmental Database and Sanborn Map review identified the following notable uses on adjoining and surrounding properties with the potential to impact groundwater and/or soil vapor at the Subject Property:

- Drug manufacturer and medical laboratory from 1938 to 1969 and dry cleaner from 2003 to 2007 (western adjoining);
- Printer from 1915 to 1938 (about 100 feet north);
- Used cars lot from 1938 to 1950 (about 350 feet northeast);
- Laundry from 1950 to 1996 (about 400 feet northeast);
- Filling station from 1969 to 1993 (about 500 feet north);
- Dry cleaner from 1991 to 2012 (about 850 feet east);

- Dry cleaner from 2001 to 2003 (about 550 feet northeast);
- Dry cleaner from 2010 to 2012 (about 600 feet northeast);
- Dry cleaner from 2004 to 2011 (about 600 feet northeast)
- Dry cleaner from 2000 to 2010 (about 700 feet northeast); and
- Dry cleaner from 2007 to 2009 (about 900 feet east).

These historical uses of adjoining and surrounding properties are considered a REC. Unreported releases of solvents, petroleum products, or other hazardous substances associated with these historical uses may have impacted the groundwater and/or soil vapor at the Subject Property.

Historic use of the adjacent sites also results in a spill (NYSDEC Spill No. 0402131) reporting at One Hanson Place on May 18, 2004, when an unknown quantity of No. 2 fuel oil was released due to tank failure. Fuel oil impacts were observed in soil from about 4 to 40 feet below grade surface (bgs). Petroleum free phase product was observed on groundwater, which was measured at about 43 feet bgs. A work plan for delineation and an exposure assessment was submitted to the New York State Department of Environmental Conservation (NYSDEC) in November 2013. The spill was closed by NYSDEC on April 15, 2015; however, closure documentation was not available for review. Groundwater and/or soil vapor at the Subject Property may have been affected by this spill incident and associated tanks.

Neither Historic RECs (HRECs) nor Controlled RECs (CRECs) were identified.

Chemical containers, ranging in size from about one to five gallons, were observed during the site reconnaissance near the active work area beneath scaffolding in the southwest corner of the Subject Property. Observed chemicals include muriatic acid, acetone, sealant, paint, and cement mix. Stored chemicals at the Subject Property is considered a de minimis condition.

11.0 REFERENCES

The following references were reviewed as part of this Phase I ESA:

1. Environmental Data Resources, Inc., Inquiry Number: 4175144.12, May 8, 2015. Aerial Photo Decade Package.
2. Environmental Data Resources, Inc., Inquiry Number: 41751445, May 12, 2015. City Directory Abstract.
3. Environmental Data Resources, Inc., Inquiry Number: 4175144.4, May 8, 2015. Historical Topographic Map Report.
4. Environmental Data Resources, Inc., Inquiry Number: 4175144_2, May 8, 2015. Radius Map with GeoCheck.
5. Environmental Data Resources, Inc., Inquiry Number: 4175144.3, May 8, 2015. Sanborn Map Report.
6. Environmental Data Resources, Inc., Inquiry Number: 41751447, May 14, 2015. Environmental Lien Search.
7. Environmental Data Resources, Inc., Inquiry Number: 4175144.8, May 8, 2015. Building Permit Report.
8. Environmental Data Resources, Inc., Inquiry Number: 4175144.6, May 8, 2015. Property Tax Map Report.
9. Environmental Protection Agency, USEPA Map of Radon Zones.
10. New York City Department of Buildings, Building Information System, http://www.nyc.gov/html/dob/html/bis/bis.shtml, retrieved May 13, 2015.
11. New York City Planning Commission. September 24, 2013. Zoning Map 16c.
12. Baskerville, Charles A., United States Geologic Survey, Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York, dated 1992.
13. NYC Oasis Maps: http://www.oasisnyc.com/map.aspx.
14. Handbook of Environmental Contaminants: A Guide for Site Assessment by Chris L. Shineldecker. Published in 1992 by Lewis Publishers, Inc.

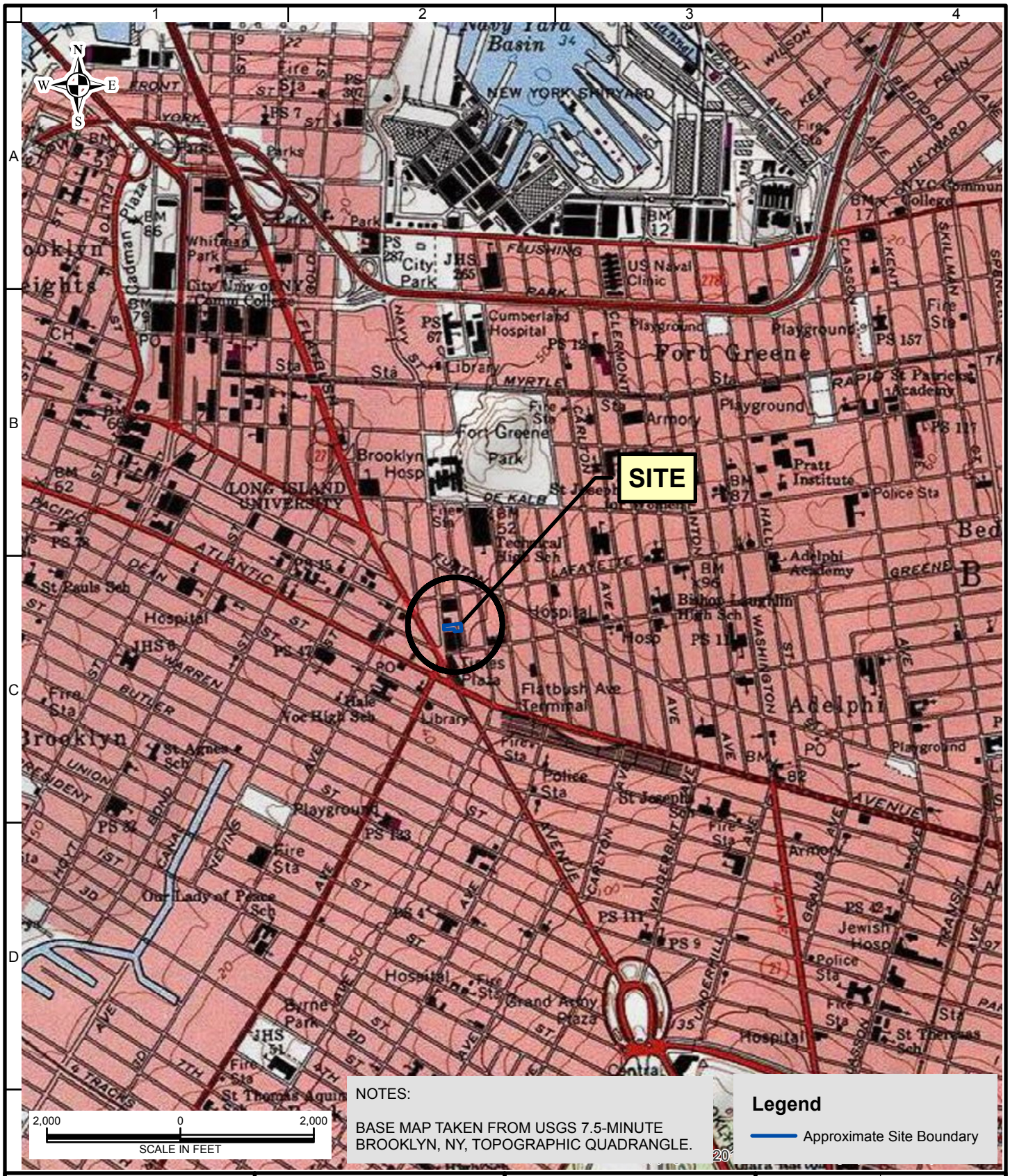
12.0 STATEMENT OF QUALIFICATIONS AND SIGNATURES

Langan declares that, to the best of its professional knowledge and belief, the personnel who performed this Phase I ESA meet the definition of Environmental Professional as defined in Subsection 312 10 of 40 CFR 312 and that they have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Properties. They have developed and performed the Phase I ESA in conformance with the standards and practices set forth in ASTM Practice E1527-13, which also satisfies the USEPA AAI Rule. Resumes outlining the qualifications of the Environmental Professionals who performed this Phase I ESA are provided in Appendix L.

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Jason Hayes, P.E., LEEP AP
Senior Associate/Vice President

Figures



LANGAN
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001-2727
T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC

Collectively known as Langan

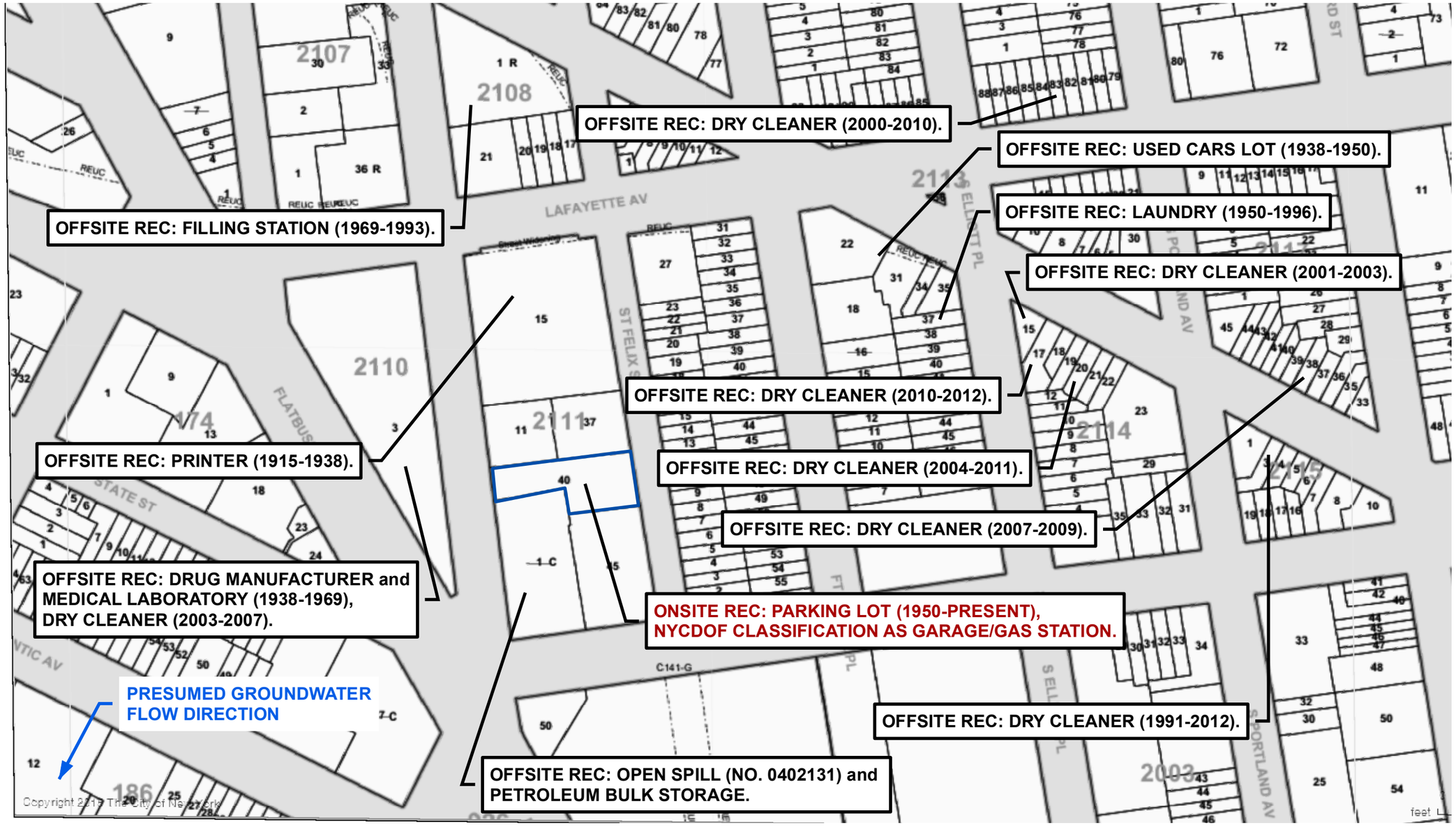
Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN
KINGS NEW YORK

Figure Title
SITE LOCATION MAP

Project No. 170366001	Figure 1
Date 5/15/2015	
Scale 1"=2,000'	
Drawn By NB	
Submission Date MAY 2015	Sheet 1 of 2

© 2013 Langan

Path: \\langan.com\data\NY\data0\170366001\Office Data\Reports\Environmental\Phase I ESA\Figures\Figure 1 - Site Location Map.mxd



Legend

Site_Boundary

0 75 150 300 Feet

Notes:

BASE MAP SOURCE: NYC DEPARTMENT OF FINANCE DIGITAL TAX MAP

LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001-2727
T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering & Environmental Services, Inc.
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Collectively known as Langan

Project: 130 SAINT FELIX STREET

BLOCK No. 2111, LOT No. 40

BROOKLYN

KINGS NEW YORK

Figure Title: RECOGNIZED ENVIRONMENTAL CONDITIONS MAP

Project No.	170366001
Date	5/15/2015
Scale	1"=150'
Drawn By	NB
Submission Date	MAY 2015
Figure	2
	Sheet 2 of 2

© 2012 Langan

Path: \\langan.com\data\NY\data0\170366001\Office Data\Reports\Environmental\Phase I ESA\Figures\Figure 2 - REC MAP.mxd

Appendix A

Site Reconnaissance Photographs

Photograph 1: View of Subject Property, looking west.

Photograph 2: View of Subject Property, looking east.

Photograph 3: View of patched asphalt along western boundary of Subject Property.

Photograph 4: View of drain and metal-covered hatch within northwestern portion of Subject Property.

Photograph 5: View of concrete patch within northwestern portion of Subject Property.

Photograph 6: View of trash containers along northern boundary of Subject Property.

Photograph 7: View of patched asphalt within western portion of Subject Property.

Photograph 8: View of monitoring well within central portion of the Subject Property.

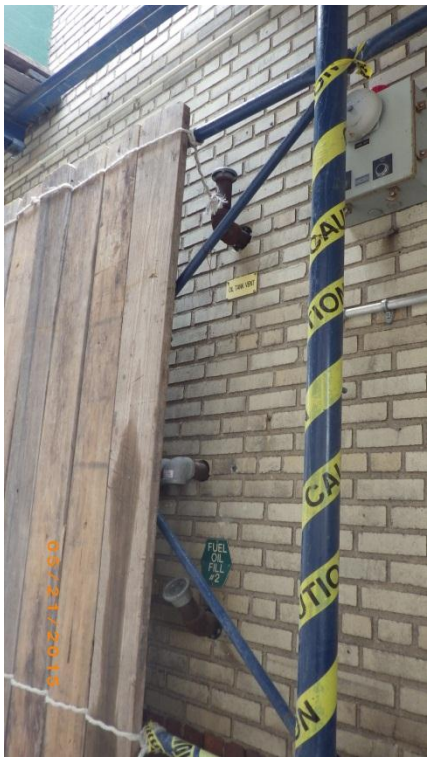
Photograph 9: View of two metal-covered hatches within central portion of Subject Property.

Photograph 10: View of contents within hatch located in center of Subject Property.

Photograph 11: View of chemical storage within southwestern portion of Subject Property.

Photograph 12: View of minor vegetation and patched asphalt within northeast portion of Subject Property.

Photograph 13: View of drain and patched asphalt within central portion of Subject Property.



Photograph 14: View of vent pipe and fill port at northern face of southwestern adjoining building.

Photograph 15: View of construction at western adjoining property.

Photograph 16: View of northwestern adjoining building.

Appendix B

User/Client Questionnaire

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ASTM PRACTICE E 1527-13: USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the User must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The User is defined as the party seeking to use Practice E1527 to complete an environmental site assessment of the property. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. These inquiries must also be conducted by the EPA Brownfield Assessment and Characterization grantees. The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquires" is not complete.

General Information

User/Client Name (s): 130 St. Felix Street LLC

Property Name: 130 St. Felix Street

Address: 130 St. Felix Street
Brooklyn, NY
11217

Property Type:

Type of Property Transaction:

- Purchase of property ☑
- Financing of property ☐
- Sale of property ☐
- Ground Lease ☐
- Build to Suit Lease ☐
- Other_____

Reason Why Phase I ESA is required: due diligence

Site Contact (s): TBD

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

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	Yes	No
(1.) Environmental liens that are filed or recorded against the property (40 CFR 312.25). Did a search of recorded land title records (or judicial records, where appropriate, see Note 1 below) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?	☐	☐

Note 1 – In certain jurisdictions, federal, tribal, state or local statutes or regulations specify that environmental liens and AULs be filed in judicial records rather than in land title records. In such cases judicial records must be searched for environmental liens and AULs.

	Yes	No
(2.) Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and (vi)). Did a search of recorded land title records (or judicial records where appropriate, see Note 1 above) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?	☐	☐

	Yes	No
(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28). Do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	☐	☑

	Yes	No
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).		
(a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Part 5.]	☑	☐
(b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?	☐	☐ N/A

	Yes	No
(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,	☐	☑
(a.) Do you know the past uses of the property?	☐	☑
(b.) Do you know of specific chemicals that are present or once were present at the property?	☐	☑
(c.) Do you know of spills or other chemical releases that have taken place at the property?	☐	☑
(d.) Do you know of any environmental cleanups that have taken place at the property?	☐	☑

	Yes	No
(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of releases at the property?	☐	☑

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Additional Information

Please provide any additional information that you feel is pertinent to the investigation:

_____

_____

_____

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: Adam Zeidel

Print/Type Name: _____

Title: Manager, Acquisitions

Company: ~~Gotham Manhattan~~ Gotham Real Estate Developers, LLC

Date: 5/14/15

LANGAN

ASTM PRACTICE E 1527-13: OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Project Location/Address: 130 St. Felix Street
Brooklyn, NY
11217

ASTM E-1527-13, Section 10.9

	Yes	No
Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☑
Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?	☐	☑
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?	☐	☑

ASTM E-1527-13, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	☑	☐	☐
Environmental compliance audit reports	☑	☐	☐
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	☑	☐	☐
Registrations for underground and aboveground storage tanks	☑	☐	☐
Material safety data sheets	☑	☐	☐
Community-right-to-know plan	☑	☐	☐
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, facility response plans, etc.	☑	☐	☐

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	Unaware	Document Exists	Copy will be provided
Reports regarding hydrogeologic conditions on the property or surrounding area	☑	☐	☐
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	☑	☐	☐
Hazardous waste generator notices or reports	☑	☐	☐
Geotechnical studies	☑	☐	☐
Risk Assessments	☑	☐	☐
Recorded Activity and Use Limitations	☑	☐	☐
Environmental Cleanup Reports	☑	☐	☐

Do you have contact information for the prior owner of the property? **Yes** ☑ **No** ☐
If yes, please provide information below:

Prior Owner's Name Canyon Johnson

Contact person Kevin Scholz

Address 2000 Avenue of the Stars, 11th Fl.
Los Angeles, CA 90067

Telephone 310-272-1532

Do you have contact information for the prior occupant of the property? **Yes** ☐ **No** ☑
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

_____

Telephone _____

Do you have information on the prior facility manager of the property? **Yes** ☐ **No** ☑
If yes, please provide information below:

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Prior Facility Manager's Name _____

Contact person _____

Address _____

_____

Telephone _____

This form was completed by: Purchaser

Property Owner ☐ Operator ☐ Key Site Manager ☐ User ☐ EP ☐

Name: Adam Zeidel

Address: 1010 Ave. of Americas, 4th Fl.
NY, NY 10018

Signature: _____ Date: 5/18/15

Appendix C

Environmental Data Resources Inc. ™ Report

LANGAN

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY 11217

Inquiry Number: 4289483.2s
May 08, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

130 ST. FELIX STREET
BROOKLYN, NY 11217

COORDINATES

Latitude (North):	40.6858000 - 40˚ 41' 8.88''
Longitude (West):	73.9775000 - 73˚ 58' 39.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	586403.9
UTM Y (Meters):	4504170.0
Elevation:	45 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20110705, 20100731
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
130 ST. FELIX STREET
BROOKLYN, NY 11217

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CLOSED-LACKOF RECENT	126 ST. FELIX STREET	NY LTANKS	Lower	1 ft.
A2	126TH STREET/FELIX S	126TH STREET/FELIX S	NY LTANKS	Lower	1 ft.
A3	VAULT 889	329 ASHLAND PL	NY Spills	Lower	1 ft.
A4	TRANFORMER VAULT # Z	327 ASHLAND AVE	NY Spills	Lower	11, 0.002, WSW
A5	BROOKLYN ACADEMY MUS	321 ASHLAND PL	NY Spills	Lower	13, 0.002, West
A6	THE BROOKLYN ACADEMY	321 ASHLAND PLACE	NY AST	Lower	27, 0.005, WNW
A7	VAULT 2014	351 ASHLAND PL	NY Spills	Higher	42, 0.008, SW
A8	VAULT 3007	351 ASHLIN PLACE	NY Spills	Lower	65, 0.012, West
A9	HSBC BANK	1 HANSON PLACE	NY LTANKS, NY Spills	Higher	141, 0.027, SSW
A10	HSBC BANK USA	1 HANSON PLACE - 2ND	RCRA-CESQG, NY MANIFEST	Higher	141, 0.027, SSW
A11	BROOKLYN ACADEMY OF	113 FLATBUSH AVENUE	NY UST	Lower	148, 0.028, West
A12	LOT 3,TAXBLOCK 2110	113 FLATBUSH AVENUE	NY E DESIGNATION	Lower	148, 0.028, West
B13	ONE HANSON PLACE	ONE HANSON PLACE	NY AST	Higher	151, 0.029, SSW
B14	F.C. HANSON OFFICE A	2 HANSON PLACE	NY AST	Higher	160, 0.030, SSW
B15	ATLANTIC TERMINAL	2 HANSON PLACE	NY Spills	Higher	160, 0.030, SSW
A16	112 FLATBUSH AV/SHEL	112 FLATBUSH AVENUE	NY Spills	Lower	169, 0.032, SW
A17	MANHOLE #26623	FLATBUSH AV & STATE	NY Spills	Lower	171, 0.032, WSW
A18	MANHOLE #26622	FLATBUSH AV & STATE	NY Spills	Lower	171, 0.032, WSW
B19	FLAT BUSH TERMINAL	FLAT BUSH AV/HANSEN	NY Spills	Higher	178, 0.034, SSW
A20	LOT 23,TAXBLOCK 174	100 FLATBUSH AVENUE	NY E DESIGNATION	Lower	186, 0.035, WSW
A21	BROOKLYN MUSIC SCHOL	126 SAINT FELIX STRE	NY UST, NY HIST UST	Lower	191, 0.036, NNE
C22	MANHOLE 2770	FORT GREEN PL & HANS	NY Spills	Higher	195, 0.037, SE
A23	LOT 18,TAXBLOCK 174	96 FLATBUSH AVENUE	NY E DESIGNATION	Lower	199, 0.038, West
C24		35 HANSON PL	EDR US Hist Cleaners	Higher	212, 0.040, ESE
B25	MANHOLE 2772	118 FLATBUSH AVE	NY Spills	Lower	234, 0.044, SSW
B26	BAGS OF DRY AMMONIA	116 FLATBUSH AVENUE	NY Spills	Lower	235, 0.045, SW
B27	CON EDISON	120 FLATBUSH AVE	NY MANIFEST	Lower	250, 0.047, SSW
B28	CON EDISON SERVICE B	125 FLATBUSH AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	266, 0.050, SSW
C29	211078; FORT GREENE	FORT GREENE PL AND H	NY Spills	Higher	278, 0.053, ESE
C30	MANHOLE 70589	FORT GREEN PL/HANSON	NY Spills	Higher	284, 0.054, ESE
D31	LOT 13,TAXBLOCK 174	80 FLATBUSH AVENUE	NY E DESIGNATION	Lower	287, 0.054, WNW
E32	SECOND DISTRICT DENT	111 FORT GREENE PLAC	NY UST, NY HIST UST	Higher	290, 0.055, NE
E33	CON EDISON	FO 102 FORT GREENE P	NY MANIFEST	Higher	304, 0.058, NE
E34	LOT 22,TAXBLOCK 2113	105 FT GREENE PLACE	NY E DESIGNATION	Higher	330, 0.062, NE
F35	CON ED-MH 1840	LAFAYETTE AVE & ASHL	RCRA NonGen / NLR, NY MANIFEST	Lower	342, 0.065, NNW
F36	BROOKLYN ACADEMY OF	30 LAFAYETTE AVENUE	NY AST, NY HIST AST	Lower	346, 0.066, North
F37	BROOKLYN ACADEMY OF	30 LAFAYETTE AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	346, 0.066, North
F38	MANHOLE 1887	ASHLAND PL/LAFAYETTE	NY Spills	Lower	351, 0.066, NNW
F39	MTA NYCT - ASHLAND P	LAFAYETTE & ASHLAND	RCRA-SQG, NY MANIFEST	Lower	351, 0.066, NNW

MAPPED SITES SUMMARY

Target Property Address:
130 ST. FELIX STREET
BROOKLYN, NY 11217

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	COMMERCIAL PARKING L	19 LAFAYETTE AVE	NY Spills	Lower	358, 0.068, NNW
C41	TARGET STORE NO.1849	139 FLATBUSH AVE	PA MANIFEST	Higher	363, 0.069, SSE
C42	TARGET STORE T1849	139 FLATBUSH AVENUE	RCRA-LQG, NY MANIFEST	Higher	363, 0.069, SSE
F43	APRT	25 LAFAYTEE AVE	NY LTANKS	Lower	371, 0.070, NNW
F44	25 LAFAYETTE ASSOC	25 LAFAYETTE AVE	NY AST, NY HIST AST	Lower	371, 0.070, NNW
D45	CON EDISON	558 STATE ST	NY MANIFEST	Lower	380, 0.072, West
G46	MANHOLE 1837	FULTON ST & FORT GRE	NY Spills	Lower	394, 0.075, NNE
D47	NYCTA CPM ENVIRO ENG	3 LAFAYETTE ST	NJ MANIFEST	Lower	413, 0.078, NW
D48	MTA NYCT - FAN PLANT	3 LAFAYETTE AVE	RCRA-CESQG, NY MANIFEST	Lower	413, 0.078, NW
E49	MANHOLE #1854	LAFAYETTE AVE/FORT G	NY Spills	Higher	420, 0.080, NNE
D50	CON EDISON - MANHOLE	ROCKWELL PLACE & LAF	RCRA-LQG, NY MANIFEST	Lower	422, 0.080, NW
D51	CON EDISON	ROCKWELL PL & LAFAYE	RCRA-CESQG, NY MANIFEST	Lower	422, 0.080, NW
D52	160 FEET FROM NE COR	LAFAYETTE AV & ROCKW	NY Spills	Lower	422, 0.080, NW
E53	MH 1854	FORT GREEN PL/LAFAYE	NY Spills	Higher	426, 0.081, NNE
E54	LOT 31,TAXBLOCK 2113	FULTON STREET	NY E DESIGNATION	Higher	427, 0.081, NE
H55	MANHOLE 2773	4TH AVENUE & ATLANTI	NY Spills	Lower	454, 0.086, SSW
H56	SPILL NUMBER 0311519	4TH AVENUE & ATLANTI	NY Spills	Lower	454, 0.086, SSW
H57	ROADWAY	ATLANTIC & 4TH AVE	NY Spills	Lower	454, 0.086, SSW
I58	SHIRLEY CHISHOLM STA	55 HANSON PLACE	NY AST	Higher	462, 0.087, ESE
H59	132 FLATBUSH AVE/MER	132 FLATBUSH AVENUE	NY Spills	Lower	468, 0.089, SSW
E60	MTA NYCT - FULTON ST	FULTON ST & LAFAYETT	RCRA NonGen / NLR, NY MANIFEST	Higher	472, 0.089, NE
D61	MANHOLE # 1849	LAFAYETTE AVE/FLATBU	NY Spills	Lower	473, 0.090, WNW
H62	LI RAIL STORAGE YARD	HANSON PLACE	NY Spills	Higher	475, 0.090, South
E63	MH 1837	FORT GREEN PL/FULTON	NY Spills	Higher	476, 0.090, NNE
E64	MANHOLE 66300	FULTON ST / FORT GRE	NY Spills	Higher	478, 0.091, NNE
E65	MANHOLE 1855	FORT GREENE PLACE AT	NY Spills	Higher	478, 0.091, NNE
D66	MANHOLE #9735	ROCKELL PL & LAFAETT	NY Spills	Lower	503, 0.095, WNW
D67		378 SCHERMERHORN ST	EDR US Hist Auto Stat	Lower	509, 0.096, WNW
G68	K.S. PRIDE CLEANERS	711 FULTON STREET	NY DRYCLEANERS	Lower	510, 0.097, NNE
F69	BROOKLYN ARMS HOTEL	268 ASHLAND PL	NY UST	Lower	511, 0.097, NNW
I70	NYC DEP	113 S ELLIOT PL	RCRA NonGen / NLR, NY MANIFEST	Higher	515, 0.098, East
J71	CON EDISON	543 ATLANTIC AVE	RCRA-CESQG, NY MANIFEST	Lower	526, 0.100, WSW
K72	NYNEX	ATLANTIC AVE & FLATB	NY MANIFEST	Higher	530, 0.100, South
K73	ATLANTIC AVE STATION	A-4 TRACK SOUTH (D,N	NY Spills	Higher	530, 0.100, South
K74	CON EDISON - MH M14	ATLANTIC AVE & FLATB	RCRA NonGen / NLR, NY MANIFEST	Higher	533, 0.101, South
K75	MANHOLE #14737	ATLANTIC AVE/FLATBUS	NY Spills	Higher	533, 0.101, South
K76	ATLANTIC/FLATBUSH AV	ATLANTIC AVE/FLATBUS	NY Spills	Higher	533, 0.101, South
K77	FLATBUSH TERMINAL -	ATLANTIC AVE/FLATBUS	NY Spills	Higher	533, 0.101, South
K78	MANHOLE 60650	FLATBUSH AVE/ATLANTI	NY Spills	Higher	533, 0.101, South

MAPPED SITES SUMMARY

Target Property Address:
130 ST. FELIX STREET
BROOKLYN, NY 11217

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K79	NYCTA - A A BULK ST	SE COR FLATBUSH & AT	RCRA-CESQG, NJ MANIFEST, NJ MANIFEST	Higher	533, 0.101, South
K80	MTA LIRR - FLATBUSH	ATLANTIC & FLATBUSH	RCRA-CESQG	Higher	533, 0.101, South
K81	NYNEX	FLATBUSH AVE & ATLAN	NY MANIFEST	Higher	533, 0.101, South
K82	MTA NYCT - A A COMP	ATLANTIC & FLATBUSH	RCRA NonGen / NLR	Higher	533, 0.101, South
K83	LONG ISALND RAILROAD	ATLANTIC AVE/FLATBUS	NY Spills	Higher	533, 0.101, South
F84	MANHOLE 1836	FULTON ST & ST FELIX	NY Spills	Lower	540, 0.102, NNW
H85		20 4TH AVE	EDR US Hist Auto Stat	Lower	541, 0.102, SSW
J86	ISLAMIC BROTHERHOOD,	552 ATLANTIC AVE	NY AST	Lower	550, 0.104, WSW
J87	MOSQUE	552-554 ATLANTIC AVE	NY Spills	Lower	550, 0.104, WSW
K88	BTWN 4TH & 5TH AV'S	ATLANTIC AVE	NY Spills	Higher	565, 0.107, South
L89		666 FULTON ST	EDR US Hist Cleaners	Higher	565, 0.107, ENE
M90	SCHERMERHORN ST AT 3	SCHERMERHORN ST AT 3	NY Spills	Lower	568, 0.108, WNW
M91	LOT 9,TAXBLOCK 174	370 SCHERMERHORN STR	NY E DESIGNATION	Lower	576, 0.109, WNW
M92	CON EDISON SERVICE B	3RD AVE & FLATBUSH A	RCRA NonGen / NLR, NY MANIFEST	Lower	577, 0.109, NW
M93	MH 2862 HAS OIL AND	FLATBUSH & THIRD AVE	NY Spills	Lower	577, 0.109, NW
L94		668 FULTON ST	EDR US Hist Cleaners	Higher	581, 0.110, ENE
M95	CONSOLIDATED EDISON	TM0004-54TH ST CORNE	NY MANIFEST	Lower	585, 0.111, WNW
M96	ROADWAY	3RD AVE BETWEEN 20 2	NY Spills	Lower	585, 0.111, WNW
G97	CITGO	620 FULTON STREET	NY LTANKS	Lower	592, 0.112, North
G98	NATSAM CORP	620 FULTON ST	NY UST	Lower	592, 0.112, North
L99	CON EDISON SERVICE B	733 FULTON ST	RCRA NonGen / NLR, NY MANIFEST	Higher	598, 0.113, ENE
L100	LOT 8,TAXBLOCK 2116	733 FULTON STREET	NY E DESIGNATION	Higher	598, 0.113, ENE
I101	67 HANSON PLACE	67 HANSON PLACE	NY AST, NY HIST AST	Higher	603, 0.114, East
L102	ROAD SPILL	69 LAFAYETTE AVE AND	NY Spills	Higher	608, 0.115, NE
L103	MANHOLE #37617	LAFAYETTE AVE & SOUT	NY Spills	Higher	610, 0.116, NE
H104	NYCTA - PACIFIC STRE	PACIFIC ST & FOURTH	RCRA NonGen / NLR, NY MANIFEST	Lower	614, 0.116, SSW
J105	CON EDISON SERVICE B	535 ATLANTIC AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	614, 0.116, WSW
N106	CON EDISON MANHOLE #	STATE STREET AND 3RD	NY Spills	Lower	620, 0.117, West
N107	CON EDISON MANHOLE 2	STATE ST & 3RD AVE N	RCRA NonGen / NLR, NY MANIFEST, NY MANIFEST	Lower	623, 0.118, West
N108	3RD AVE AND STATE ST	3RD AVE AND STATE ST	NY Spills	Lower	625, 0.118, West
L109	LOT 7,TAXBLOCK 2116	737 FULTON STREET	NY E DESIGNATION	Higher	628, 0.119, ENE
L110		674 FULTON ST	EDR US Hist Cleaners	Higher	635, 0.120, ENE
M111		59 FLATBUSH AVE	EDR US Hist Auto Stat	Lower	636, 0.120, NW
L112	LOT 6,TAXBLOCK 2116	739 FULTON STREET	NY E DESIGNATION	Higher	644, 0.122, ENE
N113	NYC DEPT OF SANITATI	30 3RD AVE	RCRA NonGen / NLR, FINDS	Lower	645, 0.122, West
I114	LOT 30,TAXBLOCK 2003	70 HANSON PLACE	NY E DESIGNATION	Higher	648, 0.123, East
K115	NYCTA - 165 CENTRAL	ATLANTIC AVE NEAR FL	RCRA NonGen / NLR, NY MANIFEST	Higher	657, 0.124, SSE
M116	PUPIL PERSONNEL (K80	362 SCHERMERHORN ST	NY AST	Lower	663, 0.126, WNW
M117	NYC DEPT OF EDUCATIO	362 SCHERMERHORN ST	RCRA-SQG, FINDS	Lower	663, 0.126, WNW

MAPPED SITES SUMMARY

Target Property Address:
130 ST. FELIX STREET
BROOKLYN, NY 11217

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
M118	55 FLATBUSH AVE	55 FLATBUSH AVE	NY AST, NY HIST AST	Lower	682, 0.129, NW
J119	CONSOLIDATED EDISON	537 ATLANTIC AVE & 3	NY MANIFEST	Lower	686, 0.130, WSW
J120	CON ED-MH2599	537 ATLANTIC AVE OPP	NY MANIFEST	Lower	686, 0.130, WSW
O121	PACIFIC BRANCH	25 4TH AVENUE	NY UST, NY HIST UST, NY Spills	Lower	720, 0.136, SSW
J122	CHURCH OF THE REDEEM	24 4TH AVE	NY AST	Lower	720, 0.136, SW
P123	CON EDISON MANHOLE 6	FULTON AVE & ASHLAND	RCRA NonGen / NLR, NY MANIFEST	Lower	726, 0.138, NNW
P124	CON EDISON MANHOLE 1	ASHLAND PL & FULTON	RCRA NonGen / NLR, NY MANIFEST, NY MANIFEST	Lower	727, 0.138, NNW
L125		81 LAFAYETTE AVE	EDR US Hist Cleaners	Higher	737, 0.140, NE
O126	568 PACIFIC ST	568 PACIFIC ST	NY AST, NY HIST AST	Lower	739, 0.140, SSW
N127	CON EDISON MANHOLE 2	3RD AVE & ATLANTIC A	RCRA NonGen / NLR, NY MANIFEST, NY MANIFEST	Lower	756, 0.143, West
Q128	CONSOLIDATED EDISON	ATLANTIC AVE & 3RD A	NY MANIFEST	Lower	761, 0.144, WSW
129	A&C ASSOCIATES	63 FORT GREENE PLACE	NY AST, NY HIST AST	Lower	769, 0.146, NNE
R130	MTA NYCT - LAFAYETTE	S PORTLAND AVE & FUL	RCRA-SQG, NJ MANIFEST, NJ MANIFEST	Higher	770, 0.146, ENE
Q131	520 ATLANTIC AVE	520 ATLANTIC AVE	NY UST, NY HIST UST	Lower	772, 0.146, West
S132	NYS DSAS TESTING & R	80 HANSON PL	RCRA NonGen / NLR, FINDS, NY MANIFEST	Higher	784, 0.148, East
L133		85 LAFAYETTE AVE	EDR US Hist Cleaners	Higher	786, 0.149, NE
L134	FRENCH GARMENT CLEAN	85 LAFAYETTE ST	RCRA-CESQG, NY MANIFEST	Higher	786, 0.149, NE
L135	FRENCH GARMENTS CLEA	85 LAFAYETTE AVE	NY DRYCLEANERS	Higher	786, 0.149, NE
M136	THE HUB	345 SCHERMERHORN STR	NY AST	Lower	790, 0.150, WNW
S137	CON EDISON MANHOLE:	140 N PORTLAND AVE	RCRA NonGen / NLR, NY MANIFEST	Higher	825, 0.156, ESE
T138		179 FLATBUSH AVE	EDR US Hist Auto Stat	Lower	831, 0.157, South
T139	179 FLATBUSH AVE	179 FLATBUSH AVE	NY UST	Lower	831, 0.157, South
T140		592 PACIFIC ST	EDR US Hist Auto Stat	Lower	836, 0.158, South
T141	BARCLAYS CENTER	620 ATLANTIC AVENUE	NY AST	Higher	849, 0.161, SSE
T142	BARCLAYS CENTER AT A	620 ATLANTIC AVENUE	RCRA-LQG, NJ MANIFEST, NJ MANIFEST, EPA WATCH LIST	Higher	849, 0.161, SSE
Q143	NYC DEP	503 ATLANTIC AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	849, 0.161, West
R144		696 FULTON ST	EDR US Hist Cleaners	Higher	857, 0.162, East
R145	DIFFERENCE CLEANERS	696 FULTON ST	RCRA-SQG, NY MANIFEST, NY MANIFEST, NY...	Higher	857, 0.162, East
U146	MACYS	625 ATLANTIC AVE	RCRA NonGen / NLR, FINDS	Higher	865, 0.164, SSE
V147	LIVINGSTON STREET RE	366 LIVINGSTON STREE	NY AST	Lower	871, 0.165, NW
U148	622 ATLANTIC AVE	622 ATLANTIC AVE	NY UST, NY Spills	Higher	882, 0.167, SSE
Q149	SARAH J. HALE H.S. A	500 PACIFIC STREET	NY AST, NY HIST AST	Lower	909, 0.172, WSW
R150		769 FULTON ST	EDR US Hist Cleaners	Higher	914, 0.173, East
V151	CON EDISON - MANHOLE	31 FLATBUSH AVE	RCRA-LQG, NY MANIFEST	Lower	921, 0.174, NW
W152	STRAND THEATRE	647 FULTON STREET	NY AST	Lower	925, 0.175, NNW
W153	BROOKLYN ACADEMY OF	FULTON ST & ROCKWELL	NY LTANKS	Lower	933, 0.177, NNW
Q154	CON EDISON MANHOLE 2	3RD AVE & PACIFIC ST	RCRA NonGen / NLR, NY MANIFEST	Lower	938, 0.178, WSW
V155	29 FLATBUSH AVENUE	29 FLATBUSH AVENUE	NY BROWNFIELDS	Lower	942, 0.178, NW
V156	29 FLATBUSH ASSN LLC	29 FLATBUSH AVENUE	RCRA-LQG, NJ MANIFEST, NJ MANIFEST	Lower	942, 0.178, NW

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
V157	350 LIVINGSTON ST	350 LIVINGSTON STREE	NY UST	Lower	950, 0.180, NW
V158	THE HUB	345 SCHERMERHORN STR	NY UST	Lower	950, 0.180, NW
V159		48 FLATBUSH AVE	EDR US Hist Cleaners	Lower	954, 0.181, NW
X160	443/445 STATE STREET	443-445 STATE STREET	NY AST, NY HIST AST	Lower	956, 0.181, WNW
Q161	TEMPLE OF RESTORATIO	492 PACIFIC STREET	NY AST	Lower	959, 0.182, WSW
W162	CHASE METROTECH CENT	CHASE METROTECH CENT	NY LTANKS	Lower	969, 0.184, NNW
Q163	BETHLEHEM CHURCH TTF	490 PACIFIC ST	NY LTANKS, NY E DESIGNATION	Lower	975, 0.185, WSW
164	45 SOUTH ELLIOT PLAC	45 SOUTH ELLIOT PLAC	NY AST	Higher	976, 0.185, NNE
V165	25 FLATBUSH AVE	25 FLATBUSH AVENUE	NY AST	Lower	984, 0.186, NW
T166	VERIZON MANHOLE 12	PACIFIC ST & FLATBUS	RCRA NonGen / NLR	Higher	985, 0.187, SSE
Y167	ROYAL FRENCH CLEANER	68-32 3RD AVE	RCRA NonGen / NLR, FINDS, NY MANIFEST	Lower	990, 0.188, WSW
Z168	SARAH J HALE SCHOOL	3RD & PACIFIC AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	1018, 0.193, SW
Z169	BROOKLYN HIGH SCHOOL	345 DEAN ST	RCRA-CESQG	Lower	1018, 0.193, SW
Z170	PUBLIC SCHOOL 655K	345 DEAN ST	RCRA-LQG, NY MANIFEST	Lower	1018, 0.193, SW
Z171	SARAH J. HALE H.S. (	345 DEAN STREET	NY AST	Lower	1018, 0.193, SW
172	FIRST ATLANTIC TERMI	170 S PORTLAND AVE	NY UST, NY HIST UST	Higher	1023, 0.194, ESE
AA173	99 LAFAYETTE AVE RLT	99 LAFAYETTE AVENUE	NY HIST UST	Higher	1028, 0.195, ENE
AA174	99 LAFAYETTE AVE	99 LAFAYETTE AVENUE	NY AST	Higher	1028, 0.195, ENE
AB175	CON EDISON	494 ATLANTIC AVE	NY MANIFEST	Lower	1036, 0.196, West
X176	THREE STARS CONTRACT	479 ATLANTIC AVE	RCRA NonGen / NLR, FINDS, NY MANIFEST	Lower	1047, 0.198, West
AC177	HUB THE	333 SCHERMERHORN ST	RCRA-LQG, FINDS, NY MANIFEST	Lower	1048, 0.198, WNW
AA178	101 LAFAYETTE AV PLA	101 LAFAYETTE AVENUE	NY AST	Higher	1052, 0.199, ENE
Y179	A & R CLEANERS	74-15 3RD AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	1066, 0.202, WSW
Y180	BHS REALTY	485 PACIFIC STREET	NY AST, NY HIST AST	Lower	1096, 0.208, WSW
AD181	BROOKLYN TECHNICAL H	29 FORT GREENE PLACE	NY AST, NY HIST AST	Lower	1101, 0.209, North
AA182	NYC DEP	S OXFORD ST & LAFAYE	RCRA NonGen / NLR, NY MANIFEST	Higher	1103, 0.209, ENE
AE183	ALLIANCE OF RESIDENT	138 SOUTH OXFORD STR	NY LTANKS, NY UST, NY HIST UST	Higher	1105, 0.209, ESE
AE184		138 S OXFORD ST	EDR US Hist Auto Stat	Higher	1105, 0.209, ESE
V185	CONSOLIDATED EDISON	30 FLATBUSH AVE	RCRA-CESQG, FINDS, NY MANIFEST	Lower	1106, 0.209, NW
V186	CON ED - V 6464	FAIRVIEW PARK DR &	RCRA NonGen / NLR	Lower	1106, 0.209, NW
V187	30 FLATBUSH AVE	30 FLATBUSH AVENUE	NY LTANKS, NY TANKS, NY Spills	Lower	1106, 0.209, NW
AD188	30 ST. FELIX STREET	30 ST. FELIX STREET	NY AST	Lower	1109, 0.210, North
AF189	CVS PHARMACY #10086	30 FLATBUSH AVE	RCRA-CESQG, FINDS, NY MANIFEST	Lower	1115, 0.211, NW
AF190	CON EDISON	30 FLATBUSH AVE	RCRA NonGen / NLR, NY MANIFEST, NY MANIFEST	Lower	1115, 0.211, NW
W191	CON EDISON	42 ROCKWELL PL	NY MANIFEST	Lower	1115, 0.211, NNW
AA192	OXFORD COMMA LLC	73 SOUTH OXFORD STRE	NY UST	Higher	1123, 0.213, ENE
AG193		185 FLATBUSH AVE	EDR US Hist Auto Stat	Higher	1142, 0.216, SSE
AD194	CON EDISON SERVICE B	23 ST FELIX ST	RCRA NonGen / NLR, NY MANIFEST	Lower	1144, 0.217, North
Y195	80 3RD AVE.	80 3RD AVE	NY LTANKS	Lower	1145, 0.217, WSW

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AA196	67 FORT GREENE PARK,	67 SOUTH OXFORD STRE	NY AST	Higher	1148, 0.217, ENE
Y197	NYNEX	3RD AVE & DEAN ST	NY MANIFEST	Lower	1149, 0.218, WSW
AF198	10 METROTECH CENTER	625 FULTON ST BLDG C	RCRA NonGen / NLR, FINDS	Lower	1159, 0.220, NW
AF199	CON EDISON	FO 548 FULTON ST	NY MANIFEST	Lower	1160, 0.220, NW
AH200	CRISTALLO CLEANERS	64 FOURTH AVE	RCRA NonGen / NLR, NY MANIFEST, US AIRS	Lower	1164, 0.220, SSW
AH201	CRISTALLO DRY CLEANE	64 FOURTH AVE.	NY DRYCLEANERS	Lower	1164, 0.220, SSW
AH202		64 4TH AVE	EDR US Hist Cleaners	Lower	1164, 0.220, SSW
AC203	NEVINS ASSOCIATES, L	45 NEVINS STREET	NY UST	Lower	1170, 0.222, WNW
AC204	CON EDISON SERVICE B	53 NEVINS ST	RCRA NonGen / NLR, NY MANIFEST	Lower	1179, 0.223, WNW
AF205	CON EDISON MANHOLE 1	HUDSON AVE & FULTON	RCRA NonGen / NLR, NY MANIFEST	Lower	1180, 0.223, NW
AC206	CON EDISON SERVICE B	50 NEVINS ST FRONT O	RCRA NonGen / NLR, NY MANIFEST	Lower	1181, 0.224, WNW
AC207	COMMUNITY LIVING	50 NEVINS STREET	NY LTANKS	Lower	1181, 0.224, WNW
AC208	INSTITUTE FOR COMMUN	50 NEVINS STREET	NY UST, NY HIST UST	Lower	1181, 0.224, WNW
AG209	NY PACIFIC REALITY	626 PACIFIC ST	NY LTANKS	Higher	1185, 0.224, SSE
AF210	CON EDISON	HUDSON AVE & FULTON	RCRA NonGen / NLR, NY MANIFEST	Lower	1188, 0.225, NW
AF211	VO4196	LIVINGSTON ST. & NEV	NY MANIFEST	Lower	1200, 0.227, NW
AF212	CON EDISON	NEVINS ST & LIVINGST	RCRA-CESQG, NJ MANIFEST, NJ MANIFEST	Lower	1201, 0.227, NW
X213	NYCDEP SHAFT 16A	NEVINS AVE & STATE S	RCRA-LQG, NY MANIFEST	Lower	1206, 0.228, WNW
X214		68 NEVINS ST	EDR US Hist Cleaners	Lower	1213, 0.230, WNW
AI215	CON EDISON	31 ROCKWELL PL	NY MANIFEST	Lower	1216, 0.230, NNW
AH216	J & I MAINT CORP	341 BERGEN STREET	NY UST	Lower	1219, 0.231, SSW
AH217	341 BERGEN ST	341 BERGEN ST	NY LTANKS	Lower	1219, 0.231, SSW
AH218	J & I MAINT CORP	341 BERGEN STREET	NY AST	Lower	1219, 0.231, SSW
AH219		68 4TH AVE	EDR US Hist Cleaners	Lower	1224, 0.232, SSW
AH220	CRICKET CLEANERS	68-09 FOURTH AVE	RCRA-SQG, RI MANIFEST, RI MANIFEST	Lower	1224, 0.232, SSW
AH221		61 4TH AVE	EDR US Hist Cleaners	Lower	1226, 0.232, SSW
AC222	SPILL NUMBER 0101538	40 NEVINS ST	NY LTANKS	Lower	1226, 0.232, WNW
AG223	195 FLATBUSH AVENUE	195 FLATBUSH AVENUE	RCRA-LQG, FINDS, NY UST, NY HIST UST, NY MANIFEST	Higher	1242, 0.235, SSE
AG224		195 FLATBUSH AVE	EDR US Hist Auto Stat	Higher	1242, 0.235, SSE
AJ225	LEE-VIC INDUSTRIES I	88 THIRD AVE	RCRA NonGen / NLR, NY MANIFEST	Lower	1252, 0.237, WSW
AJ226	MH TM1114	88TH ST/3RD AVE	NY AST, NY Spills	Lower	1252, 0.237, WSW
227	467 PACIFIC ST	467 PACIFIC ST	NY AST	Lower	1261, 0.239, West
AF228	CON EDISON	FO 6 NEVINS ST	NY MANIFEST	Lower	1269, 0.240, NW
AG229	CON EDISON SERVICE B	32 5TH AVE & DEAN ST	RCRA NonGen / NLR, NY MANIFEST	Higher	1269, 0.240, South
AB230	CONTINENTAL GENERAL	472 ATLANTIC AVE	RCRA NonGen / NLR, FINDS, NY MANIFEST	Lower	1269, 0.240, West
AB231	GENERAL TIRE SERVICE	472 ATLANTIC AVENUE	NY UST	Lower	1269, 0.240, West
AB232		472 ATLANTIC AVE	EDR US Hist Cleaners	Lower	1269, 0.240, West
AK233	CONTINENTAL EQUITIES	123-129 LAFAYETTE AV	NY AST, NY HIST AST	Higher	1275, 0.241, ENE
AL234	CON EDISON	NAVINS ST & ATLANTIC	NY MANIFEST	Lower	1287, 0.244, West

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AL235	NYNEX	ATLANTIC AVE & NEVIN	NY MANIFEST	Lower	1287, 0.244, West
236	ATLANTIC TERRACE COR	669 ATLANTIC AVENUE	NY BROWNFIELDS	Higher	1291, 0.245, SE
AI237	CON EDISON MANHOLE:	473 HUDSON AVE OPPOS	RCRA NonGen / NLR, FINDS, NY MANIFEST	Lower	1294, 0.245, NNW
AF238	NYCTA - NEVINS STREE	NEVINS ST & FLATBUSH	RCRA NonGen / NLR	Lower	1296, 0.245, NW
AC239	NYCDEP	305 SCHERMERHORN ST	NY MANIFEST	Lower	1299, 0.246, WNW
AJ240	S & J BELT CLEANERS	92-17 3RD AVE	RCRA-CESQG, FINDS, NY MANIFEST	Lower	1304, 0.247, WSW
AL241	CON EDISON	90 NEVINS ST	NY MANIFEST	Lower	1317, 0.249, West
242		440 STATE ST	EDR US Hist Auto Stat	Lower	1318, 0.250, WNW
AM243	FORT GREEN PL & DEKA	FORT GREEN PL&DEKALB	NY LTANKS	Lower	1389, 0.263, North
AM244	BROOKLYN HOSPITAL	121 DEKALB AVENUE	NY LTANKS, NY Spills	Lower	1401, 0.265, North
AK245	141-147 LAFAYETTE AV	141 LAFAYETTE AVE	NY LTANKS	Higher	1525, 0.289, ENE
246	SINSI RESIDENCE	112 ST MARKS PL	NY LTANKS	Lower	1526, 0.289, SSW
247	ULANO CORP-280 BERGE	280 BERGEN ST	NY LTANKS, NY AIRS	Lower	1530, 0.290, WSW
248	105 3RD AVE/BROOKLYN	105 3RD AVENUE	NY LTANKS, NY Spills	Lower	1535, 0.291, SW
AN249	195 FLATBUSH AVE/BKL	195 FLATBUSH AVENUE	NY LTANKS, NY Spills	Higher	1541, 0.292, SSE
AO250	430 PACIFIC STREET	430 PACIFIC STREET	NY LTANKS	Lower	1547, 0.293, West
AN251	COMMERCIAL BUILDING	473 DEAN ST	NY LTANKS, NY Spills	Higher	1574, 0.298, SSE
AO252	438-440 ATLANTIC AVE	438-440 ATLANTIC AVE	NY LTANKS	Lower	1608, 0.305, West
253	CARLTON NURSING HOME	405 CARLTON AVENUE	NY LTANKS, NY HIST AST, NY Spills	Higher	1647, 0.312, East
AP254	ENGINE CO. 219/LADD.	494 DEAN STREET	NY LTANKS, NY Spills	Higher	1771, 0.335, SSE
255	WYCKOFF CONSOLIDATED	572 WARREN ST	NY LTANKS, NY Spills	Lower	1816, 0.344, SW
AQ256	WYCKOFF GARDENS -NYC	272 WYCKOFF STREET	NY LTANKS	Lower	1837, 0.348, WSW
AQ257	WYCKOFF GARDENS	185 NEVINS ST	NY LTANKS	Lower	1888, 0.358, WSW
AQ258	WYCKOFF HOUSING -NYC	272 WYCKOFF STREET	NY LTANKS, NY Spills	Lower	1888, 0.358, WSW
259	487 CARLTON AVE	487 CARLTON AVE	NY LTANKS, NY Spills	Higher	1953, 0.370, ESE
AP260	PETER F REILLY STORA	491 BERGEN ST	NY LTANKS, NY UST, NY HIST UST	Higher	1999, 0.379, SSE
261	FMR GAS STATION/VACN	124 4TH AVENUE	NY LTANKS, NY Spills	Lower	2109, 0.399, SSW
262	MAXIMUM DISTRIBUTORS	151-169 3RD AVE	NY LTANKS	Lower	2109, 0.399, SW
263	DEPARTMENT HPD	516 BERGEN STREET	NY LTANKS	Higher	2135, 0.404, SSE
264	ATLANTIC MERIT	ATLANTIC & CARLTON A	NY LTANKS	Higher	2148, 0.407, ESE
265	428 CLERMONT AVE	428 CLERMONT AVE	NY LTANKS	Higher	2202, 0.417, East
266	BALTIC RECYCLING COR	524-26 BALTIC STREET	NY SWF/LF	Lower	2217, 0.420, SW
267	APARTMENT BUILDING -	125 ASHLAND PLACE	NY LTANKS	Lower	2274, 0.431, North
268	CINDERELLA CLEANERS	248 FLATBUSH AVE	RCRA-CESQG, NY MANIFEST, NY DRYCLEANERS, NY...	Higher	2320, 0.439, SSE
AR269	CONSOLIDATED EDISON	191 WILLOUGHBY ST	NY LTANKS, NY MANIFEST, NY Spills	Lower	2358, 0.447, NNW
270	TANK TEST FAIL TTF	404 ALBEE SQ	NY LTANKS	Lower	2419, 0.458, NW
271	ECONOMY CLEANERS	123 5TH AVE	RCRA-CESQG, NY LTANKS, NY MANIFEST, US AIRS	Lower	2432, 0.461, South
AR272	LONG ISLAND UNIVERSI	1 UNIVERSITY PLAZA	NY LTANKS, NY Spills	Higher	2440, 0.462, NNW
273	SMITH RESIDENCE	99 ST MARKS AVE	NY LTANKS	Higher	2462, 0.466, SSE

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274	24-41 WALLACE AVE	24-41 WALLACE AVE	NY LTANKS	Higher	2473, 0.468, NNE
275	375 VANDERBILT AVE/B	375 VANDERBILT AVENU	NY LTANKS	Higher	2484, 0.470, East
276	HORSEMEN ANTIQUE TTF	351 ATLANTIC AVE	NY LTANKS	Lower	2515, 0.476, WNW
277	NYC DEPT. OF SOC. SE	210 LIVINGSTON STREE	NY LTANKS, NY Spills	Lower	2524, 0.478, WNW
278	NYTEL	101 FLEET PL	NY LTANKS	Higher	2527, 0.479, NNW
279	ATLANTIC AVE AT CARL	ATLANTIC AVE AT CARL	NY LTANKS	Higher	2528, 0.479, ESE
280	RINALDI RECYCLING CO	326 DOUGLASS STREET	NY SWRCY	Lower	2538, 0.481, SSW
281	APARTMENT BUILDING	1 HOYT STREET	NY LTANKS	Lower	2540, 0.481, NW
282	BASIN HAULAGE INC. I	462-470 BALTIC STREE	NY SWF/LF	Lower	2577, 0.488, WSW
283	RESIDENTS 420 CLINTO	420 CLINTON AVE & GR	NY LTANKS	Higher	2597, 0.492, East
284	JOEL VENGRIN	155 BERGEN STREET	NY LTANKS	Lower	2599, 0.492, West
AS285	280 DOUGLAS STREET	280 DOUGLAS STREET	NY LTANKS, NY Spills	Lower	2605, 0.493, SW
AS286	280 DOUGLAS ST/PENSK	280 DOUGLAS ST/PENSK	NY LTANKS	Lower	2614, 0.495, SW
AT287	GOWANUS CANAL	BUTLER ST (BETWEEN B	NPL, CERCLIS, ROD, ICIS, FINDS, PRP	Lower	2790, 0.528, WSW
AT288	GOWANUS CANAL SITE	GOWANUS CANAL	NY SHWS	Lower	2790, 0.528, WSW
AU289	FULTON WORKS	DEGRAW STREET AND NE	EDR MGP	Lower	2970, 0.562, SW
290	FORMER O.Z. ELECTRIC	198 DOUGLASS STREET	NY SHWS, NY Spills	Lower	3054, 0.578, WSW
AU291	FULTON MUNICIPAL WOR	NEVINS, DEGRAW AND S	EDR MGP	Lower	3138, 0.594, SW
292	NAVY BARRACKS BKLYN		FUDS	Lower	4226, 0.800, NNE
293	BROOKLYN NAVY YARD 1	KENT AVENUE	NY SHWS	Lower	4243, 0.804, North
294	BROOKLYN NAVAL YARD	FLUSHING AVENUE & CU	NY SHWS	Lower	4430, 0.839, North
295	PATTERSON CHEMICAL C	102 3RD ST	CORRACTS, RCRA NonGen / NLR, FINDS, NY MANIFEST	Lower	5061, 0.959, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NY VAPOR REOPENED..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

NY HIST LTANKS..... Listing of Leaking Storage Tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

NY CBS UST ..... Chemical Bulk Storage Database
NY MOSF UST ..... Major Oil Storage Facilities Database
NY CBS AST ..... Chemical Bulk Storage Database
NY MOSF AST ..... Major Oil Storage Facilities Database
NY MOSF ..... Major Oil Storage Facility Site Listing
NY CBS ..... Chemical Bulk Storage Site Listing
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

NY ENG CONTROLS ..... Registry of Engineering Controls
NY INST CONTROL ..... Registry of Institutional Controls
NY RES DECL ..... Restrictive Declarations Listing

State and tribal voluntary cleanup sites

NY VCP ..... Voluntary Cleanup Agreements
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY ERP ..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
NY SWTIRE ..... Registered Waste Tire Storage & Facility List
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL ..... Clandestine Drug Labs
NY DEL SHWS ..... Delisted Registry Sites
US HIST CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS 2 ..... CERCLA Lien Information
NY LIENS ..... Spill Liens Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

NY Hist Spills	SPILLS Database
NY SPILLS 90	SPILLS 90 data from FirstSearch
NY SPILLS 80	SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
UMTRA	Uranium Mill Tailings Sites
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
NY HSWDS	Hazardous Substance Waste Disposal Site Inventory
NY UIC	Underground Injection Control Wells
NY SPDES	State Pollutant Discharge Elimination System
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
NY COAL ASH	Coal Ash Disposal Site Listing
NY Financial Assurance	Financial Assurance Information Listing
COAL ASH DOE	Steam-Electric Plant Operation Data
US FIN ASSUR	Financial Assurance Information
LEAD SMELTERS	Lead Smelter Sites
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
2020 COR ACTION	2020 Corrective Action Program List

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS	Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF	Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 12/16/2014 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOWANUS CANAL	*BUTLER ST (BETWEEN B*	*WSW 1/2 - 1 (0.528 mi.)*	*AT287*	*877*

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/09/2014 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PATTERSON CHEMICAL C	*102 3RD ST*	*SW 1/2 - 1 (0.959 mi.)*	*295*	*904*

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/09/2014 has revealed that there are 9 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TARGET STORE T1849	*139 FLATBUSH AVENUE*	*SSE 0 - 1/8 (0.069 mi.)*	*C42*	*100*
BARCLAYS CENTER AT A	*620 ATLANTIC AVENUE*	*SSE 1/8 - 1/4 (0.161 mi.)*	*T142*	*342*
195 FLATBUSH AVENUE	*195 FLATBUSH AVENUE*	*SSE 1/8 - 1/4 (0.235 mi.)*	*AG223*	*661*

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON - MANHOLE	*ROCKWELL PLACE & LAF*	*NW 0 - 1/8 (0.080 mi.)*	*D50*	*131*
CON EDISON - MANHOLE	*31 FLATBUSH AVE*	*NW 1/8 - 1/4 (0.174 mi.)*	*V151*	*417*
29 FLATBUSH ASSN LLC	*29 FLATBUSH AVENUE*	*NW 1/8 - 1/4 (0.178 mi.)*	*V156*	*427*
PUBLIC SCHOOL 655K	*345 DEAN ST*	*SW 1/8 - 1/4 (0.193 mi.)*	*Z170*	*493*
HUB THE	*333 SCHERMERHORN ST*	*WNW 1/8 - 1/4 (0.198 mi.)*	*AC177*	*515*

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCDEP SHAFT 16A	***NEVINS AVE & STATE S***	***WNW 1/8 - 1/4 (0.228 mi.)***	***X213***	***630***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/09/2014 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MTA NYCT - LAFAYETTE	***S PORTLAND AVE & FUL***	***ENE 1/8 - 1/4 (0.146 mi.)***	***R130***	***299***
DIFFERENCE CLEANERS	***696 FULTON ST***	***E 1/8 - 1/4 (0.162 mi.)***	***R145***	***380***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA NYCT - ASHLAND P	***LAFAYETTE & ASHLAND***	***NNW 0 - 1/8 (0.066 mi.)***	***F39***	***87***
NYC DEPT OF EDUCATIO	***362 SCHERMERHORN ST***	***WNW 1/8 - 1/4 (0.126 mi.)***	***M117***	***258***
CRICKET CLEANERS	***68-09 FOURTH AVE***	***SSW 1/8 - 1/4 (0.232 mi.)***	***AH220***	***643***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 12/09/2014 has revealed that there are 12 RCRA-CESQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HSBC BANK USA	***1 HANSON PLACE - 2ND***	***SSW 0 - 1/8 (0.027 mi.)***	***A10***	***36***
NYCTA - A A BULK ST	***SE COR FLATBUSH & AT***	***S 0 - 1/8 (0.101 mi.)***	***K79***	***176***
MTA LIRR - FLATBUSH	ATLANTIC & FLATBUSH	S 0 - 1/8 (0.101 mi.)	K80	196
FRENCH GARMENT CLEAN	***85 LAFAYETTE ST***	***NE 1/8 - 1/4 (0.149 mi.)***	***L134***	***317***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MTA NYCT - FAN PLANT	***3 LAFAYETTE AVE***	***NW 0 - 1/8 (0.078 mi.)***	***D48***	***127***
CON EDISON	***ROCKWELL PL & LAFAYE***	***NW 0 - 1/8 (0.080 mi.)***	***D51***	***133***
CON EDISON	***543 ATLANTIC AVE***	***WSW 0 - 1/8 (0.100 mi.)***	***J71***	***163***
BROOKLYN HIGH SCHOOL	345 DEAN ST	SW 1/8 - 1/4 (0.193 mi.)	Z169	492
CONSOLIDATED EDISON	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.209 mi.)***	***V185***	***557***
CVS PHARMACY #10086	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.211 mi.)***	***AF189***	***576***
CON EDISON	***NEVINS ST & LIVINGST***	***NW 1/8 - 1/4 (0.227 mi.)***	***AF212***	***627***
S & J BELT CLEANERS	***92-17 3RD AVE***	***WSW 1/8 - 1/4 (0.247 mi.)***	***AJ240***	***713***

State- and tribal - equivalent CERCLIS

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 03/25/2015 has revealed that there are 4 NY SHWS sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOWANUS CANAL SITE	GOWANUS CANAL	WSW 1/2 - 1 (0.528 mi.)	AT288	892
Class Code: Significant threat to the public health or environment - action required. Site Code: 406956				
FORMER O.Z. ELECTRIC	***198 DOUGLASS STREET***	***WSW 1/2 - 1 (0.578 mi.)***	***290***	***895***
Site Code: 450318				
BROOKLYN NAVY YARD 1	KENT AVENUE	N 1/2 - 1 (0.804 mi.)	293	900
Class Code: Significant threat to the public health or environment - action required. Site Code: 57818				
BROOKLYN NAVAL YARD	FLUSHING AVENUE & CU	N 1/2 - 1 (0.839 mi.)	294	903
Site Code: 338760				

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 04/08/2015 has revealed that there are 2 NY SWF/LF sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
BALTIC RECYCLING COR	524-26 BALTIC STREET	SW 1/4 - 1/2 (0.420 mi.)	266	809
BASIN HAULAGE INC. I	462-470 BALTIC STREE	WSW 1/4 - 1/2 (0.488 mi.)	282	868

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 03/19/2015 has revealed that there are 55 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HSBC BANK	***1 HANSON PLACE***	***SSW 0 - 1/8 (0.027 mi.)***	***A9***	***22***
Program Number: 0207736 Program Number: 0402131 Spill Number/Closed Date: 0207736 / 6/26/2003 Spill Number/Closed Date: 0402131 / Not Reported Site ID: 306480 Site ID: 328931				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIANCE OF RESIDENT	***138 SOUTH OXFORD STR***	***ESE 1/8 - 1/4 (0.209 mi.)***	***AE183***	***552***
Program Number: 9909509				
Spill Number/Closed Date: 9909509 / 1/28/2005				
Site ID: 110213				
NY PACIFIC REALITY	626 PACIFIC ST	SSE 1/8 - 1/4 (0.224 mi.)	AG209	624
Program Number: 9807467				
Spill Number/Closed Date: 9807467 / 3/3/2003				
Site ID: 282665				
141-147 LAFAYETTE AV	141 LAFAYETTE AVE	ENE 1/4 - 1/2 (0.289 mi.)	AK245	734
Program Number: 9213645				
Spill Number/Closed Date: 9213645 / 8/31/2006				
Site ID: 325970				
195 FLATBUSH AVE/BKL	***195 FLATBUSH AVENUE***	***SSE 1/4 - 1/2 (0.292 mi.)***	***AN249***	***755***
Program Number: 9005782				
Spill Number/Closed Date: 9005782 / 10/29/1990				
Site ID: 214487				
COMMERCIAL BUILDING	***473 DEAN ST***	***SSE 1/4 - 1/2 (0.298 mi.)***	***AN251***	***761***
Program Number: 0412319				
Spill Number/Closed Date: 0412319 / 8/5/2005				
Site ID: 337764				
CARLTON NURSING HOME	***405 CARLTON AVENUE***	***E 1/4 - 1/2 (0.312 mi.)***	***253***	***766***
Program Number: 0209163				
Spill Number/Closed Date: 0209163 / 6/6/2006				
Site ID: 206800				
ENGINE CO. 219/LADD.	***494 DEAN STREET***	***SSE 1/4 - 1/2 (0.335 mi.)***	***AP254***	***772***
Program Number: 0102628				
Program Number: 0109974				
Spill Number/Closed Date: 0102628 / 7/29/2011				
Spill Number/Closed Date: 0109974 / 4/30/2004				
Site ID: 240961				
Site ID: 240962				
487 CARLTON AVE	***487 CARLTON AVE***	***ESE 1/4 - 1/2 (0.370 mi.)***	***259***	***784***
Program Number: 9513597				
Program Number: 9010635				
Program Number: 0201138				
Spill Number/Closed Date: 9513597 / 2/1/1996				
Spill Number/Closed Date: 9010635 / 9/8/1994				
Spill Number/Closed Date: 0201138 / Not Reported				
Site ID: 250505				
Site ID: 146593				
Site ID: 63178				
PETER F REILLY STORA	***491 BERGEN ST***	***SSE 1/4 - 1/2 (0.379 mi.)***	***AP260***	***790***
Program Number: 0611363				
Spill Number/Closed Date: 0611363 / 2/15/2007				
Site ID: 375995				
DEPARTMENT HPD	516 BERGEN STREET	SSE 1/4 - 1/2 (0.404 mi.)	263	805
Program Number: 0106869				
Spill Number/Closed Date: 0106869 / 10/25/2005				
Site ID: 249040				
ATLANTIC MERIT	ATLANTIC & CARLTON A	ESE 1/4 - 1/2 (0.407 mi.)	264	807
Program Number: 8804681				
Spill Number/Closed Date: 8804681 / 8/29/1988				
Site ID: 159878				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
428 CLERMONT AVE Program Number: 9212121 Spill Number/Closed Date: 9212121 / 1/25/1993 Site ID: 221340	428 CLERMONT AVE	E 1/4 - 1/2 (0.417 mi.)	265	808
LONG ISLAND UNIVERSI Program Number: 9312175 Program Number: 9312459 Spill Number/Closed Date: 9312175 / 1/16/1994 Spill Number/Closed Date: 9312459 / 1/6/1995 Site ID: 213429 Site ID: 213430	***1 UNIVERSITY PLAZA***	***NNW 1/4 - 1/2 (0.462 mi.)***	***AR272***	***848***
SMITH RESIDENCE Program Number: 0408289 Spill Number/Closed Date: 0408289 / 12/20/2004 Site ID: 332977	99 ST MARKS AVE	SSE 1/4 - 1/2 (0.466 mi.)	273	854
24-41 WALLACE AVE Program Number: 9702096 Spill Number/Closed Date: 9702096 / 5/19/1997 Site ID: 265206	24-41 WALLACE AVE	NNE 1/4 - 1/2 (0.468 mi.)	274	856
375 VANDERBILT AVE/B Program Number: 8909323 Spill Number/Closed Date: 8909323 / 12/24/1989 Site ID: 242497	375 VANDERBILT AVENU	E 1/4 - 1/2 (0.470 mi.)	275	857
NYTEL Program Number: 8902455 Spill Number/Closed Date: 8902455 / 6/23/2004 Site ID: 164754	101 FLEET PL	NNW 1/4 - 1/2 (0.479 mi.)	278	864
ATLANTIC AVE AT CARL Program Number: 9701786 Spill Number/Closed Date: 9701786 / 2/24/2003 Site ID: 330576	ATLANTIC AVE AT CARL	ESE 1/4 - 1/2 (0.479 mi.)	279	866
RESIDENTS 420 CLINTO Program Number: 9813604 Spill Number/Closed Date: 9813604 / 3/5/1999 Site ID: 183388	420 CLINTON AVE & GR	E 1/4 - 1/2 (0.492 mi.)	283	869

Lower Elevation	Address	Direction / Distance	Map ID	Page
CLOSED-LACKOF RECENT Program Number: 8907009 Spill Number/Closed Date: 8907009 / 3/6/2003 Site ID: 290853	126 ST. FELIX STREET	0 - 1/8 (0.000 mi.)	A1	8
126TH STREET/FELIX S Program Number: 9210971 Spill Number/Closed Date: 9210971 / 12/22/1992 Site ID: 315459	126TH STREET/FELIX S	0 - 1/8 (0.000 mi.)	A2	9
APRT Program Number: 0711692 Spill Number/Closed Date: 0711692 / 9/4/2008 Site ID: 393211	25 LAFAYTEE AVE	NNW 0 - 1/8 (0.070 mi.)	F43	119
CITGO Program Number: 8911007 Program Number: 9313579 Spill Number/Closed Date: 8911007 / 1/14/2004 Spill Number/Closed Date: 9313579 / 4/21/2006 Site ID: 286346 Site ID: 288263	620 FULTON STREET	N 0 - 1/8 (0.112 mi.)	G97	217

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN ACADEMY OF Program Number: 9709843 Spill Number/Closed Date: 9709843 / 3/3/2003 Site ID: 224482	FULTON ST & ROCKWELL	NNW 1/8 - 1/4 (0.177 mi.)	W153	422
CHASE METROTECH CENT Program Number: 9709176 Spill Number/Closed Date: 9709176 / 11/6/1997 Site ID: 295106	CHASE METROTECH CENT	NNW 1/8 - 1/4 (0.184 mi.)	W162	470
BETHLEHEM CHURCH TTF Program Number: 0908933 Spill Number/Closed Date: 0908933 / 9/30/2010 Site ID: 421597	***490 PACIFIC ST***	***WSW 1/8 - 1/4 (0.185 mi.)***	***Q163***	***471***
30 FLATBUSH AVE Program Number: 0504778 Spill Number/Closed Date: 0504778 / 9/23/2005 Site ID: 349684	***30 FLATBUSH AVENUE***	***NW 1/8 - 1/4 (0.209 mi.)***	***V187***	***567***
80 3RD AVE. Program Number: 9208644 Spill Number/Closed Date: 9208644 / 10/27/1992 Site ID: 76952	80 3RD AVE	WSW 1/8 - 1/4 (0.217 mi.)	Y195	589
COMMUNITY LIVING Program Number: 0104574 Program Number: 0209832 Spill Number/Closed Date: 0104574 / 11/26/2008 Spill Number/Closed Date: 0209832 / 9/30/2003 Site ID: 299842 Site ID: 299843	50 NEVINS STREET	WNW 1/8 - 1/4 (0.224 mi.)	AC207	617
341 BERGEN ST Program Number: 9706573 Spill Number/Closed Date: 9706573 / 4/30/1998 Site ID: 66262	341 BERGEN ST	SSW 1/8 - 1/4 (0.231 mi.)	AH217	637
SPILL NUMBER 0101538 Program Number: 0101538 Spill Number/Closed Date: 0101538 / 7/23/2003 Site ID: 253123	40 NEVINS ST	WNW 1/8 - 1/4 (0.232 mi.)	AC222	659
FORT GREEN PL & DEKA Program Number: 9301100 Spill Number/Closed Date: 9301100 / 4/22/1993 Site ID: 134848	FORT GREEN PL&DEKALB	N 1/4 - 1/2 (0.263 mi.)	AM243	727
BROOKLYN HOSPITAL Program Number: 1307639 Program Number: 0407566 Program Number: 9909134 Spill Number/Closed Date: 1307639 / Not Reported Spill Number/Closed Date: 0407566 / 3/2/2006 Spill Number/Closed Date: 9909134 / 11/12/1999 Site ID: 488320 Site ID: 332075 Site ID: 264146	***121 DEKALB AVENUE***	***N 1/4 - 1/2 (0.265 mi.)***	***AM244***	***728***
SINSI RESIDENCE Program Number: 9600499 Spill Number/Closed Date: 9600499 / 4/11/1996 Site ID: 208826	112 ST MARKS PL	SSW 1/4 - 1/2 (0.289 mi.)	246	736

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
ULANO CORP-280 BERGE Program Number: 9713764 Spill Number/Closed Date: 9713764 / 5/18/1999 Site ID: 247275	***280 BERGEN ST***	***WSW 1/4 - 1/2 (0.290 mi.)***	***247***	***737***
105 3RD AVE/BROOKLYN Program Number: 9210549 Spill Number/Closed Date: 9210549 / 11/12/1998 Site ID: 327377	***105 3RD AVENUE***	***SW 1/4 - 1/2 (0.291 mi.)***	***248***	***753***
430 PACIFIC STREET Program Number: 0707748 Spill Number/Closed Date: 0707748 / 10/15/2007 Site ID: 388499	430 PACIFIC STREET	W 1/4 - 1/2 (0.293 mi.)	AO250	760
438-440 ATLANTIC AVE Program Number: 9514297 Spill Number/Closed Date: 9514297 / 2/9/1996 Site ID: 234831	438-440 ATLANTIC AVE	W 1/4 - 1/2 (0.305 mi.)	AO252	765
WYCKOFF CONSOLIDATED Program Number: 9105220 Spill Number/Closed Date: 9105220 / 3/8/2005 Site ID: 115495	***572 WARREN ST***	***SW 1/4 - 1/2 (0.344 mi.)***	***255***	***777***
WYCKOFF GARDENS -NYC Program Number: 9010808 Spill Number/Closed Date: 9010808 / 1/8/2004 Site ID: 145838	272 WYCKOFF STREET	WSW 1/4 - 1/2 (0.348 mi.)	AQ256	779
WYCKOFF GARDENS Program Number: 9811464 Spill Number/Closed Date: 9811464 / 5/14/1999 Site ID: 237645	185 NEVINS ST	WSW 1/4 - 1/2 (0.358 mi.)	AQ257	781
WYCKOFF HOUSING -NYC Program Number: 9307448 Spill Number/Closed Date: 9307448 / 1/8/2004 Site ID: 145839	***272 WYCKOFF STREET***	***WSW 1/4 - 1/2 (0.358 mi.)***	***AQ258***	***782***
FMR GAS STATION/VACN Program Number: 9505523 Spill Number/Closed Date: 9505523 / 1/17/2013 Site ID: 261276	***124 4TH AVENUE***	***SSW 1/4 - 1/2 (0.399 mi.)***	***261***	***795***
MAXIMUM DISTRIBUTORS Program Number: 1402248 Program Number: 0902974 Spill Number/Closed Date: 1402248 / 7/9/2014 Spill Number/Closed Date: 0902974 / 8/18/2009 Site ID: 495561 Site ID: 415051	151-169 3RD AVE	SW 1/4 - 1/2 (0.399 mi.)	262	803
APARTMENT BUILDING - Program Number: 0311788 Spill Number/Closed Date: 0311788 / 8/25/2014 Site ID: 93393	125 ASHLAND PLACE	N 1/4 - 1/2 (0.431 mi.)	267	810
CONSOLIDATED EDISON Program Number: 0512183 Spill Number/Closed Date: 0512183 / 1/25/2006 Site ID: 358546	***191 WILLOUGHBY ST***	***NNW 1/4 - 1/2 (0.447 mi.)***	***AR269***	***829***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
TANK TEST FAIL TTF Program Number: 1214526 Spill Number/Closed Date: 1214526 / Not Reported Site ID: 477771	404 ALBEE SQ	NW 1/4 - 1/2 (0.458 mi.)	270	833
ECONOMY CLEANERS Program Number: 0507654 Spill Number/Closed Date: 0507654 / 11/30/2005 Site ID: 353099	***123 5TH AVE***	***S 1/4 - 1/2 (0.461 mi.)***	***271***	***834***
HORSEMEN ANTIQUE TTF Program Number: 1305024 Spill Number/Closed Date: 1305024 / 10/9/2013 Site ID: 485578	351 ATLANTIC AVE	WNW 1/4 - 1/2 (0.476 mi.)	276	858
NYC DEPT. OF SOC. SE Program Number: 0311816 Program Number: 9812016 Spill Number/Closed Date: 0311816 / 3/6/2006 Spill Number/Closed Date: 9812016 / 3/19/1999 Site ID: 71747 Site ID: 71749	***210 LIVINGSTON STREE***	***WNW 1/4 - 1/2 (0.478 mi.)***	***277***	***859***
APARTMENT BUILDING Program Number: 0409183 Spill Number/Closed Date: 0409183 / 3/8/2005 Site ID: 334048	1 HOYT STREET	NW 1/4 - 1/2 (0.481 mi.)	281	867
JOEL VENGRIN Program Number: 0400986 Spill Number/Closed Date: 0400986 / 6/1/2004 Site ID: 265474	155 BERGEN STREET	W 1/4 - 1/2 (0.492 mi.)	284	870
280 DOUGLAS STREET Program Number: 9410669 Spill Number/Closed Date: 9410669 / 3/10/1995 Site ID: 160988	***280 DOUGLAS STREET***	***SW 1/4 - 1/2 (0.493 mi.)***	***AS285***	***871***
280 DOUGLAS ST/PENSK Program Number: 9112095 Spill Number/Closed Date: 9112095 / 3/3/1992 Site ID: 280189	280 DOUGLAS ST/PENSK	SW 1/4 - 1/2 (0.495 mi.)	AS286	875

State and tribal registered storage tank lists

NY TANKS: This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

A review of the NY TANKS list, as provided by EDR, and dated 03/30/2015 has revealed that there is 1 NY TANKS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
30 FLATBUSH AVE Facility Id: 2-611432 Site Status: Active	***30 FLATBUSH AVENUE***	***NW 1/8 - 1/4 (0.209 mi.)***	***V187***	***567***

EXECUTIVE SUMMARY

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, and dated 03/30/2015 has revealed that there are 19 NY UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SECOND DISTRICT DENT Id/Status:: 2-606189	***111 FORT GREENE PLAC***	***NE 0 - 1/8 (0.055 mi.)***	***E32***	***72***
622 ATLANTIC AVE Id/Status:: 2-083992	***622 ATLANTIC AVE***	***SSE 1/8 - 1/4 (0.167 mi.)***	***U148***	***399***
FIRST ATLANTIC TERMI Id/Status:: 2-333069	***170 S PORTLAND AVE***	***ESE 1/8 - 1/4 (0.194 mi.)***	***172***	***505***
ALLIANCE OF RESIDENT Id/Status:: 2-604393	***138 SOUTH OXFORD STR***	***ESE 1/8 - 1/4 (0.209 mi.)***	***AE183***	***552***
OXFORD COMMA LLC Id/Status:: 2-612350	73 SOUTH OXFORD STRE	ENE 1/8 - 1/4 (0.213 mi.)	AA192	585
195 FLATBUSH AVENUE Id/Status:: 2-157317	***195 FLATBUSH AVENUE***	***SSE 1/8 - 1/4 (0.235 mi.)***	***AG223***	***661***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN ACADEMY OF Id/Status:: 2-612310	113 FLATBUSH AVENUE	W 0 - 1/8 (0.028 mi.)	A11	44
BROOKLYN MUSIC SCHOL Id/Status:: 2-246581	***126 SAINT FELIX STRE***	***NNE 0 - 1/8 (0.036 mi.)***	***A21***	***59***
BROOKLYN ARMS HOTEL Id/Status:: 2-333743	268 ASHLAND PL	NNW 0 - 1/8 (0.097 mi.)	F69	158
NATSAM CORP Id/Status:: 2-479888	620 FULTON ST	N 0 - 1/8 (0.112 mi.)	G98	220
PACIFIC BRANCH Id/Status:: 2-345148	***25 4TH AVENUE***	***SSW 1/8 - 1/4 (0.136 mi.)***	***O121***	***265***
520 ATLANTIC AVE Id/Status:: 2-603091	***520 ATLANTIC AVE***	***W 1/8 - 1/4 (0.146 mi.)***	***Q131***	***303***
179 FLATBUSH AVE Id/Status:: 2-611003	179 FLATBUSH AVE	S 1/8 - 1/4 (0.157 mi.)	T139	333
350 LIVINGSTON ST Id/Status:: 2-094099	350 LIVINGSTON STREE	NW 1/8 - 1/4 (0.180 mi.)	V157	459
THE HUB Id/Status:: 2-243817	345 SCHERMERHORN STR	NW 1/8 - 1/4 (0.180 mi.)	V158	461
NEVINS ASSOCIATES, L Id/Status:: 2-603510	45 NEVINS STREET	WNW 1/8 - 1/4 (0.222 mi.)	AC203	610
INSTITUTE FOR COMMUN Id/Status:: 2-606495	***50 NEVINS STREET***	***WNW 1/8 - 1/4 (0.224 mi.)***	***AC208***	***620***
J & I MAINT CORP Id/Status:: 2-247685	341 BERGEN STREET	SSW 1/8 - 1/4 (0.231 mi.)	AH216	634
GENERAL TIRE SERVICE Id/Status:: 2-477362	472 ATLANTIC AVENUE	W 1/8 - 1/4 (0.240 mi.)	AB231	700

EXECUTIVE SUMMARY

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, and dated 03/30/2015 has revealed that there are 33 NY AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ONE HANSON PLACE Facility Id: 2-607998	ONE HANSON PLACE	SSW 0 - 1/8 (0.029 mi.)	B13	47
F.C. HANSON OFFICE A Facility Id: 2-609830	2 HANSON PLACE	SSW 0 - 1/8 (0.030 mi.)	B14	50
SHIRLEY CHISHOLM STA Facility Id: 2-602648	55 HANSON PLACE	ESE 0 - 1/8 (0.087 mi.)	I58	143
67 HANSON PLACE Facility Id: 2-099171 Facility Id: 2-466484	***67 HANSON PLACE***	***E 0 - 1/8 (0.114 mi.)***	***I101***	***231***
BARCLAYS CENTER Facility Id: 2-612173	620 ATLANTIC AVENUE	SSE 1/8 - 1/4 (0.161 mi.)	T141	339
45 SOUTH ELLIOT PLAC Facility Id: 2-608185	45 SOUTH ELLIOT PLAC	NNE 1/8 - 1/4 (0.185 mi.)	164	473
99 LAFAYETTE AVE Facility Id: 2-305715	99 LAFAYETTE AVENUE	ENE 1/8 - 1/4 (0.195 mi.)	AA174	510
101 LAFAYETTE AV PLA Facility Id: 2-373745	101 LAFAYETTE AVENUE	ENE 1/8 - 1/4 (0.199 mi.)	AA178	530
67 FORT GREENE PARK, Facility Id: 2-604404	67 SOUTH OXFORD STRE	ENE 1/8 - 1/4 (0.217 mi.)	AA196	590
CONTINENTAL EQUITIES Facility Id: 2-359890	***123-129 LAFAYETTE AV***	***ENE 1/8 - 1/4 (0.241 mi.)***	***AK233***	***703***

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE BROOKLYN ACADEMY Facility Id: 2-611272	321 ASHLAND PLACE	WNW 0 - 1/8 (0.005 mi.)	A6	16
BROOKLYN ACADEMY OF Facility Id: 2-601958	***30 LAFAYETTE AVENUE***	***N 0 - 1/8 (0.066 mi.)***	***F36***	***79***
25 LAFAYETTE ASSOC Facility Id: 2-292974	***25 LAFAYETTE AVE***	***NNW 0 - 1/8 (0.070 mi.)***	***F44***	***120***
ISLAMIC BROTHERHOOD, Facility Id: 2-610927	552 ATLANTIC AVE	WSW 0 - 1/8 (0.104 mi.)	J86	202
PUPIL PERSONNEL (K80 Facility Id: 2-605759	362 SCHERMERHORN ST	WNW 1/8 - 1/4 (0.126 mi.)	M116	256
55 FLATBUSH AVE Facility Id: 2-090166	***55 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.129 mi.)***	***M118***	***260***
CHURCH OF THE REDEEM Facility Id: 2-606402	24 4TH AVE	SW 1/8 - 1/4 (0.136 mi.)	J122	280
568 PACIFIC ST Facility Id: 2-207063	***568 PACIFIC ST***	***SSW 1/8 - 1/4 (0.140 mi.)***	***O126***	***288***
A&C ASSOCIATES Facility Id: 2-098671	***63 FORT GREENE PLACE***	***NNE 1/8 - 1/4 (0.146 mi.)***	***129***	***295***
THE HUB Facility Id: 2-243817	345 SCHERMERHORN STR	WNW 1/8 - 1/4 (0.150 mi.)	M136	328

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
LIVINGSTON STREET RE Facility Id: 2-202401	366 LIVINGSTON STREE	NW 1/8 - 1/4 (0.165 mi.)	V147	397
SARAH J. HALE H.S. A Facility Id: 2-354724	***500 PACIFIC STREET***	***WSW 1/8 - 1/4 (0.172 mi.)***	***Q149***	***412***
STRAND THEATRE Facility Id: 2-611850	647 FULTON STREET	NNW 1/8 - 1/4 (0.175 mi.)	W152	420
443/445 STATE STREET Facility Id: 2-454842	***443-445 STATE STREET***	***WNW 1/8 - 1/4 (0.181 mi.)***	***X160***	***465***
TEMPLE OF RESTORATIO Facility Id: 2-606367	492 PACIFIC STREET	WSW 1/8 - 1/4 (0.182 mi.)	Q161	468
25 FLATBUSH AVE Facility Id: 2-611281	25 FLATBUSH AVENUE	NW 1/8 - 1/4 (0.186 mi.)	V165	475
SARAH J. HALE H.S. (Facility Id: 2-606324	345 DEAN STREET	SW 1/8 - 1/4 (0.193 mi.)	Z171	503
BHS REALTY Facility Id: 2-602005	***485 PACIFIC STREET***	***WSW 1/8 - 1/4 (0.208 mi.)***	***Y180***	***543***
BROOKLYN TECHNICAL H Facility Id: 2-355658	***29 FORT GREENE PLACE***	***N 1/8 - 1/4 (0.209 mi.)***	***AD181***	***546***
30 ST. FELIX STREET Facility Id: 2-612057	30 ST. FELIX STREET	N 1/8 - 1/4 (0.210 mi.)	AD188	573
J & I MAINT CORP Facility Id: 2-247685	341 BERGEN STREET	SSW 1/8 - 1/4 (0.231 mi.)	AH218	638
MH TM1114 Facility Id: 2-047252	***88TH ST/3RD AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***AJ226***	***687***
467 PACIFIC ST Facility Id: 2-047163	467 PACIFIC ST	W 1/8 - 1/4 (0.239 mi.)	227	691

State and tribal Brownfields sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 03/25/2015 has revealed that there are 3 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ATLANTIC TERRACE COR Site Code: 374758	669 ATLANTIC AVENUE	SE 1/8 - 1/4 (0.245 mi.)	236	708
CINDERELLA CLEANERS Site Code: 465470 Site Code: 477008	***248 FLATBUSH AVE***	***SSE 1/4 - 1/2 (0.439 mi.)***	***268***	***812***

Lower Elevation	Address	Direction / Distance	Map ID	Page
29 FLATBUSH AVENUE Site Code: 395947	29 FLATBUSH AVENUE	NW 1/8 - 1/4 (0.178 mi.)	V155	425

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 04/08/2015 has revealed that there is 1 NY SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RINALDI RECYCLING CO	326 DOUGLASS STREET	SSW 1/4 - 1/2 (0.481 mi.)	280	867

Local Lists of Registered Storage Tanks

NY HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 9 NY HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SECOND DISTRICT DENT Facility Status: 2 PBS Number: 2-606189 Tank Status: 4	***111 FORT GREENE PLAC***	***NE 0 - 1/8 (0.055 mi.)***	***E32***	***72***
FIRST ATLANTIC TERMI Facility Status: 1 PBS Number: 2-333069 Tank Status: 1	***170 S PORTLAND AVE***	***ESE 1/8 - 1/4 (0.194 mi.)***	***172***	***505***
99 LAFAYETTE AVE RLT Facility Status: 1 PBS Number: 2-305715 Tank Status: 1	99 LAFAYETTE AVENUE	ENE 1/8 - 1/4 (0.195 mi.)	AA173	508
ALLIANCE OF RESIDENT Facility Status: 1 PBS Number: 2-604393 Tank Status: 2	***138 SOUTH OXFORD STR***	***ESE 1/8 - 1/4 (0.209 mi.)***	***AE183***	***552***
195 FLATBUSH AVENUE Facility Status: 1 PBS Number: 2-157317 Tank Status: 3	***195 FLATBUSH AVENUE***	***SSE 1/8 - 1/4 (0.235 mi.)***	***AG223***	***661***

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN MUSIC SCHOL Facility Status: 1 PBS Number: 2-246581 Tank Status: 1	***126 SAINT FELIX STRE***	***NNE 0 - 1/8 (0.036 mi.)***	***A21***	***59***
PACIFIC BRANCH Facility Status: 2 PBS Number: 2-345148 Tank Status: 4	***25 4TH AVENUE***	***SSW 1/8 - 1/4 (0.136 mi.)***	***O121***	***265***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
520 ATLANTIC AVE Facility Status: 2 PBS Number: 2-603091 Tank Status: 3	***520 ATLANTIC AVE***	***W 1/8 - 1/4 (0.146 mi.)***	***Q131***	***303***
INSTITUTE FOR COMMUN Facility Status: 1 PBS Number: 2-606495 Tank Status: 1	***50 NEVINS STREET***	***WNW 1/8 - 1/4 (0.224 mi.)***	***AC208***	***620***

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 03/19/2015 has revealed that there are 48 NY Spills sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VAULT 2014 Site ID: 182317 Spill Number/Closed Date: 0103988 / 7/29/2003 spillno: 0103988	351 ASHLAND PL	SW 0 - 1/8 (0.008 mi.)	A7	19
HSBC BANK Site ID: 328932 Spill Number/Closed Date: 8605094 / 11/10/1986 spillno: 8605094	***1 HANSON PLACE***	***SSW 0 - 1/8 (0.027 mi.)***	***A9***	***22***
ATLANTIC TERMINAL Site ID: 351161 Spill Number/Closed Date: 0506031 / 8/17/2005 spillno: 0506031	2 HANSON PLACE	SSW 0 - 1/8 (0.030 mi.)	B15	53
FLAT BUSH TERMINAL Site ID: 84595 Spill Number/Closed Date: 0101794 / 7/27/2001 spillno: 0101794	FLAT BUSH AV/HANSEN	SSW 0 - 1/8 (0.034 mi.)	B19	57
MANHOLE 2770 Site ID: 254927 Spill Number/Closed Date: 9908623 / 2/21/2002 spillno: 9908623	FORT GREEN PL & HANS	SE 0 - 1/8 (0.037 mi.)	C22	62
211078; FORT GREENE Site ID: 432244 Spill Number/Closed Date: 0814184 / 8/31/2008 spillno: 0814184	FORT GREENE PL AND H	ESE 0 - 1/8 (0.053 mi.)	C29	69
MANHOLE 70589 Site ID: 334566 Spill Number/Closed Date: 0409761 / 5/5/2005 spillno: 0409761	FORT GREEN PL/HANSON	ESE 0 - 1/8 (0.054 mi.)	C30	70
MANHOLE #1854 Site ID: 349839 Spill Number/Closed Date: 0504916 / 1/10/2008 spillno: 0504916	LAFAYETTE AVE/FORT G	NNE 0 - 1/8 (0.080 mi.)	E49	129

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MH 1854 Site ID: 141123 Spill Number/Closed Date: 9907255 / 11/29/1999 spillno: 9907255	FORT GREEN PL/LAFAYE	NNE 0 - 1/8 (0.081 mi.)	E53	137
LI RAIL STORAGE YARD Site ID: 280163 Spill Number/Closed Date: 0013052 / 4/10/2001 spillno: 0013052	HANSON PLACE	S 0 - 1/8 (0.090 mi.)	H62	152
MH 1837 Site ID: 231455 Spill Number/Closed Date: 9906059 / 11/8/1999 spillno: 9906059	FORT GREEN PL/FULTON	NNE 0 - 1/8 (0.090 mi.)	E63	153
MANHOLE 66300 Site ID: 456169 Spill Number/Closed Date: 1108436 / 11/9/2011 spillno: 1108436	FULTON ST / FORT GRE	NNE 0 - 1/8 (0.091 mi.)	E64	154
MANHOLE 1855 Site ID: 350052 Spill Number/Closed Date: 0505093 / 5/3/2007 spillno: 0505093	FORT GREENE PLACE AT	NNE 0 - 1/8 (0.091 mi.)	E65	155
ATLANTIC AVE STATION Site ID: 346468 Spill Number/Closed Date: 0502166 / 8/7/2013 spillno: 0502166	A-4 TRACK SOUTH (D,N	S 0 - 1/8 (0.100 mi.)	K73	165
MANHOLE #14737 Site ID: 210275 Spill Number/Closed Date: 0301980 / 9/26/2003 spillno: 0301980	ATLANTIC AVE/FLATBUS	S 0 - 1/8 (0.101 mi.)	K75	170
ATLANTIC/FLATBUSH AV Site ID: 320328 Spill Number/Closed Date: 9510514 / 11/21/1995 spillno: 9510514	ATLANTIC AVE/FLATBUS	S 0 - 1/8 (0.101 mi.)	K76	171
FLATBUSH TERMINAL - Site ID: 342441 Spill Number/Closed Date: 0413358 / 6/8/2005 spillno: 0413358	ATLANTIC AVE/FLATBUS	S 0 - 1/8 (0.101 mi.)	K77	173
MANHOLE 60650 Site ID: 134284 Site ID: 306867 Spill Number/Closed Date: 0002780 / 5/8/2001 Spill Number/Closed Date: 9911275 / 3/28/2002 spillno: 0002780 spillno: 9911275	FLATBUSH AVE/ATLANTI	S 0 - 1/8 (0.101 mi.)	K78	174
LONG ISALND RAILROAD Site ID: 353427 Spill Number/Closed Date: 0507923 / 12/29/2005 spillno: 0507923	ATLANTIC AVE/FLATBUS	S 0 - 1/8 (0.101 mi.)	K83	199
BTWN 4TH & 5TH AV'S Site ID: 166736 Spill Number/Closed Date: 0000484 / 7/10/2002 spillno: 0000484	ATLANTIC AVE	S 0 - 1/8 (0.107 mi.)	K88	207

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROAD SPILL Site ID: 425471 Spill Number/Closed Date: 0912574 / 3/4/2010 spillno: 0912574	69 LAFAYETTE AVE AND	NE 0 - 1/8 (0.115 mi.)	L102	238
MANHOLE #37617 Site ID: 368049 Spill Number/Closed Date: 0604958 / 11/15/2006 spillno: 0604958	LAFAYETTE AVE & SOUT	NE 0 - 1/8 (0.116 mi.)	L103	239

Lower Elevation	Address	Direction / Distance	Map ID	Page
VAULT 889 Site ID: 306763 Site ID: 306762 Spill Number/Closed Date: 0211355 / 9/26/2003 Spill Number/Closed Date: 9710706 / 3/23/1998 spillno: 9710706 spillno: 0211355	329 ASHLAND PL	0 - 1/8 (0.000 mi.)	A3	10
TRANFORMER VAULT # Z Site ID: 338252 Spill Number/Closed Date: 0412697 / 1/5/2006 spillno: 0412697	327 ASHLAND AVE	WSW 0 - 1/8 (0.002 mi.)	A4	13
BROOKLYN ACADEMY MUS Site ID: 426871 Spill Number/Closed Date: 0913894 / 5/18/2010 spillno: 0913894	321 ASHLAND PL	W 0 - 1/8 (0.002 mi.)	A5	15
VAULT 3007 Site ID: 226528 Spill Number/Closed Date: 9907684 / 8/17/2000 spillno: 9907684	351 ASHLIN PLACE	W 0 - 1/8 (0.012 mi.)	A8	20
112 FLATBUSH AV/SHEL Site ID: 225908 Spill Number/Closed Date: 8910580 / 7/9/2002 spillno: 8910580	112 FLATBUSH AVENUE	SW 0 - 1/8 (0.032 mi.)	A16	54
MANHOLE #26623 Site ID: 155497 Spill Number/Closed Date: 0003986 / 10/16/2001 spillno: 0003986	FLATBUSH AV & STATE	WSW 0 - 1/8 (0.032 mi.)	A17	55
MANHOLE #26622 Site ID: 155498 Spill Number/Closed Date: 0003987 / 10/16/2001 spillno: 0003987	FLATBUSH AV & STATE	WSW 0 - 1/8 (0.032 mi.)	A18	56
MANHOLE 2772 Site ID: 131501 Spill Number/Closed Date: 9911669 / 3/4/2002 spillno: 9911669	118 FLATBUSH AVE	SSW 0 - 1/8 (0.044 mi.)	B25	64
BAGS OF DRY AMMONIA Site ID: 468497 Spill Number/Closed Date: 1205540 / 9/4/2012 spillno: 1205540	116 FLATBUSH AVENUE	SW 0 - 1/8 (0.045 mi.)	B26	65
MANHOLE 1887 Site ID: 352005 Spill Number/Closed Date: 0506735 / 1/11/2006 spillno: 0506735	ASHLAND PL/LAFAYETTE	NNW 0 - 1/8 (0.066 mi.)	F38	85

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
COMMERCIAL PARKING L Site ID: 495145 Spill Number/Closed Date: 1401845 / Not Reported spillno: 1401845	19 LAFAYETTE AVE	NNW 0 - 1/8 (0.068 mi.)	F40	90
MANHOLE 1837 Site ID: 142955 Spill Number/Closed Date: 9907807 / 11/30/1999 spillno: 9907807	FULTON ST & FORT GRE	NNE 0 - 1/8 (0.075 mi.)	G46	125
160 FEET FROM NE COR Site ID: 181177 Spill Number/Closed Date: 0305085 / 8/15/2013 spillno: 0305085	LAFAYETTE AV & ROCKW	NW 0 - 1/8 (0.080 mi.)	D52	135
MANHOLE 2773 Site ID: 368480 Spill Number/Closed Date: 0605341 / 11/15/2006 spillno: 0605341	4TH AVENUE & ATLANTI	SSW 0 - 1/8 (0.086 mi.)	H55	139
SPILL NUMBER 0311519 Site ID: 92504 Spill Number/Closed Date: 0311519 / 3/10/2004 spillno: 0311519	4TH AVENUE & ATLANTI	SSW 0 - 1/8 (0.086 mi.)	H56	140
ROADWAY Site ID: 460185 Spill Number/Closed Date: 1112254 / 1/23/2012 spillno: 1112254	ATLANTIC & 4TH AVE	SSW 0 - 1/8 (0.086 mi.)	H57	141
132 FLATBUSH AVE/MER Site ID: 179156 Site ID: 179155 Spill Number/Closed Date: 8701148 / 8/21/1987 Spill Number/Closed Date: 8907321 / 6/24/2013 spillno: 8907321 spillno: 8701148	132 FLATBUSH AVENUE	SSW 0 - 1/8 (0.089 mi.)	H59	146
MANHOLE # 1849 Site ID: 351970 Spill Number/Closed Date: 0506710 / 1/11/2006 spillno: 0506710	LAFAYETTE AVE/FLATBU	WNW 0 - 1/8 (0.090 mi.)	D61	150
MANHOLE #9735 Site ID: 303813 Spill Number/Closed Date: 0005857 / 2/13/2002 spillno: 0005857	ROCKELL PL & LAFAETT	WNW 0 - 1/8 (0.095 mi.)	D66	156
MANHOLE 1836 Site ID: 60385 Spill Number/Closed Date: 9809994 / 11/7/2002 spillno: 9809994	FULTON ST & ST FELIX	NNW 0 - 1/8 (0.102 mi.)	F84	201
MOSQUE Site ID: 398707 Spill Number/Closed Date: 0802555 / 10/9/2008 spillno: 0802555	552-554 ATLANTIC AVE	WSW 0 - 1/8 (0.104 mi.)	J87	204
SCHERMERHORN ST AT 3 Site ID: 291146 Spill Number/Closed Date: 9808619 / 10/25/2002 spillno: 9808619	SCHERMERHORN ST AT 3	WNW 0 - 1/8 (0.108 mi.)	M90	209

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
MH 2862 HAS OIL AND Site ID: 400398 Spill Number/Closed Date: 0803632 / 8/27/2008 spillno: 0803632	FLATBUSH & THIRD AVE	NW 0 - 1/8 (0.109 mi.)	M93	212
ROADWAY Site ID: 488767 Spill Number/Closed Date: 1308057 / 11/7/2013 spillno: 1308057	3RD AVE BETWEEN 20 2	WNW 0 - 1/8 (0.111 mi.)	M96	216
CON EDISON MANHOLE # Site ID: 453638 Spill Number/Closed Date: 1105965 / 10/6/2011 spillno: 1105965	STATE STREET AND 3RD	W 0 - 1/8 (0.117 mi.)	N106	245
3RD AVE AND STATE ST Site ID: 403350 Spill Number/Closed Date: 0806090 / 8/29/2008 spillno: 0806090	3RD AVE AND STATE ST	W 0 - 1/8 (0.118 mi.)	N108	249

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/09/2014 has revealed that there are 42 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON SERVICE B	***125 FLATBUSH AVE***	***SSW 0 - 1/8 (0.050 mi.)***	***B28***	***67***
MTA NYCT - FULTON ST	***FULTON ST & LAFAYETT***	***NE 0 - 1/8 (0.089 mi.)***	***E60***	***148***
NYC DEP	***113 S ELLIOT PL***	***E 0 - 1/8 (0.098 mi.)***	***I70***	***160***
CON EDISON - MH M14	***ATLANTIC AVE & FLATB***	***S 0 - 1/8 (0.101 mi.)***	***K74***	***167***
MTA NYCT - A A COMP	ATLANTIC & FLATBUSH	S 0 - 1/8 (0.101 mi.)	K82	198
CON EDISON SERVICE B	***733 FULTON ST***	***ENE 0 - 1/8 (0.113 mi.)***	***L99***	***229***
NYCTA - 165 CENTRAL	***ATLANTIC AVE NEAR FL***	***SSE 0 - 1/8 (0.124 mi.)***	***K115***	***253***
NYS DSAS TESTING & R	***80 HANSON PL***	***E 1/8 - 1/4 (0.148 mi.)***	***S132***	***312***
CON EDISON MANHOLE:	***140 N PORTLAND AVE***	***ESE 1/8 - 1/4 (0.156 mi.)***	***S137***	***331***
MACYS	***625 ATLANTIC AVE***	***SSE 1/8 - 1/4 (0.164 mi.)***	***U146***	***396***
VERIZON MANHOLE 12	PACIFIC ST & FLATBUS	SSE 1/8 - 1/4 (0.187 mi.)	T166	477
NYC DEP	***S OXFORD ST & LAFAYE***	***ENE 1/8 - 1/4 (0.209 mi.)***	***AA182***	***551***
CON EDISON SERVICE B	***32 5TH AVE & DEAN ST***	***S 1/8 - 1/4 (0.240 mi.)***	***AG229***	***694***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON ED-MH 1840	***LAFAYETTE AVE & ASHL***	***NNW 0 - 1/8 (0.065 mi.)***	***F35***	***76***
BROOKLYN ACADEMY OF	***30 LAFAYETTE AVE***	***N 0 - 1/8 (0.066 mi.)***	***F37***	***82***
CON EDISON SERVICE B	***3RD AVE & FLATBUSH A***	***NW 0 - 1/8 (0.109 mi.)***	***M92***	***210***
NYCTA - PACIFIC STRE	***PACIFIC ST & FOURTH***	***SSW 0 - 1/8 (0.116 mi.)***	***H104***	***240***
CON EDISON SERVICE B	***535 ATLANTIC AVE***	***WSW 0 - 1/8 (0.116 mi.)***	***J105***	***243***
CON EDISON MANHOLE 2	***STATE ST & 3RD AVE N***	***W 0 - 1/8 (0.118 mi.)***	***N107***	***246***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYC DEPT OF SANITATI	***30 3RD AVE***	***W 0 - 1/8 (0.122 mi.)***	***N113***	***251***
CON EDISON MANHOLE 6	***FULTON AVE & ASHLAND***	***NNW 1/8 - 1/4 (0.138 mi.)***	***P123***	***282***
CON EDISON MANHOLE 1	***ASHLAND PL & FULTON***	***NNW 1/8 - 1/4 (0.138 mi.)***	***P124***	***284***
CON EDISON MANHOLE 2	***3RD AVE & ATLANTIC A***	***W 1/8 - 1/4 (0.143 mi.)***	***N127***	***291***
NYC DEP	***503 ATLANTIC AVE***	***W 1/8 - 1/4 (0.161 mi.)***	***Q143***	***377***
CON EDISON MANHOLE 2	***3RD AVE & PACIFIC ST***	***WSW 1/8 - 1/4 (0.178 mi.)***	***Q154***	***423***
ROYAL FRENCH CLEANER	***68-32 3RD AVE***	***WSW 1/8 - 1/4 (0.188 mi.)***	***Y167***	***478***
SARAH J HALE SCHOOL	***3RD & PACIFIC AVE***	***SW 1/8 - 1/4 (0.193 mi.)***	***Z168***	***487***
THREE STARS CONTRACT	***479 ATLANTIC AVE***	***W 1/8 - 1/4 (0.198 mi.)***	***X176***	***513***
A & R CLEANERS	***74-15 3RD AVE***	***WSW 1/8 - 1/4 (0.202 mi.)***	***Y179***	***532***
CON ED - V 6464	FAIRVIEW PARK DR &	NW 1/8 - 1/4 (0.209 mi.)	V186	566
CON EDISON	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.211 mi.)***	***AF190***	***581***
CON EDISON SERVICE B	***23 ST FELIX ST***	***N 1/8 - 1/4 (0.217 mi.)***	***AD194***	***587***
10 METROTECH CENTER	***625 FULTON ST BLDG C***	***NW 1/8 - 1/4 (0.220 mi.)***	***AF198***	***593***
CRISTALLO CLEANERS	***64 FOURTH AVE***	***SSW 1/8 - 1/4 (0.220 mi.)***	***AH200***	***596***
CON EDISON SERVICE B	***53 NEVINS ST***	***WNW 1/8 - 1/4 (0.223 mi.)***	***AC204***	***612***
CON EDISON MANHOLE 1	***HUDSON AVE & FULTON***	***NW 1/8 - 1/4 (0.223 mi.)***	***AF205***	***614***
CON EDISON SERVICE B	***50 NEVINS ST FRONT O***	***WNW 1/8 - 1/4 (0.224 mi.)***	***AC206***	***616***
CON EDISON	***HUDSON AVE & FULTON***	***NW 1/8 - 1/4 (0.225 mi.)***	***AF210***	***625***
LEE-VIC INDUSTRIES I	***88 THIRD AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***AJ225***	***685***
CONTINENTAL GENERAL	***472 ATLANTIC AVE***	***W 1/8 - 1/4 (0.240 mi.)***	***AB230***	***696***
CON EDISON MANHOLE:	***473 HUDSON AVE OPPOS***	***NNW 1/8 - 1/4 (0.245 mi.)***	***AI237***	***709***
NYCTA - NEVINS STREE	NEVINS ST & FLATBUSH	NW 1/8 - 1/4 (0.245 mi.)	AF238	711

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 06/06/2014 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NAVY BARRACKS BKLYN		NNE 1/2 - 1 (0.800 mi.)	292	899

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GOWANUS CANAL	***BUTLER ST (BETWEEN B***	***WSW 1/2 - 1 (0.528 mi.)***	***AT287***	***877***

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2015 has revealed that there are 78 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HSBC BANK USA EPA ID: NYR000118232	***1 HANSON PLACE - 2ND***	***SSW 0 - 1/8 (0.027 mi.)***	***A10***	***36***

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON SERVICE B EPA ID: NYP004346243	***125 FLATBUSH AVE***	***SSW 0 - 1/8 (0.050 mi.)***	***B28***	***67***
CON EDISON EPA ID: NYP004602991	FO 102 FORT GREENE P	NE 0 - 1/8 (0.058 mi.)	E33	75
TARGET STORE T1849 EPA ID: NYR000134130	***139 FLATBUSH AVENUE***	***SSE 0 - 1/8 (0.069 mi.)***	***C42***	***100***
MTA NYCT - FULTON ST EPA ID: NYR000041772	***FULTON ST & LAFAYETT***	***NE 0 - 1/8 (0.089 mi.)***	***E60***	***148***
NYC DEP EPA ID: NYP003663739	***113 S ELLIOT PL***	***E 0 - 1/8 (0.098 mi.)***	***I70***	***160***
NYNEX EPA ID: NYP000925537	ATLANTIC AVE & FLATB	S 0 - 1/8 (0.100 mi.)	K72	165
CON EDISON - MH M14 EPA ID: NYP004112835	***ATLANTIC AVE & FLATB***	***S 0 - 1/8 (0.101 mi.)***	***K74***	***167***
NYCTA - A A BULK ST EPA Id: NY0000973693	***SE COR FLATBUSH & AT***	***S 0 - 1/8 (0.101 mi.)***	***K79***	***176***
NYNEX EPA ID: NYP000933275	FLATBUSH AVE & ATLAN	S 0 - 1/8 (0.101 mi.)	K81	197
CON EDISON SERVICE B EPA ID: NYP004365946	***733 FULTON ST***	***ENE 0 - 1/8 (0.113 mi.)***	***L99***	***229***
NYCTA - 165 CENTRAL EPA ID: NYD982738817	***ATLANTIC AVE NEAR FL***	***SSE 0 - 1/8 (0.124 mi.)***	***K115***	***253***
MTA NYCT - LAFAYETTE EPA Id: NYR000168237	***S PORTLAND AVE & FUL***	***ENE 1/8 - 1/4 (0.146 mi.)***	***R130***	***299***
NYS DSAS TESTING & R EPA ID: NYD982539777	***80 HANSON PL***	***E 1/8 - 1/4 (0.148 mi.)***	***S132***	***312***
FRENCH GARMENT CLEAN EPA ID: NYD981077365	***85 LAFAYETTE ST***	***NE 1/8 - 1/4 (0.149 mi.)***	***L134***	***317***
CON EDISON MANHOLE: EPA ID: NYP004407748	***140 N PORTLAND AVE***	***ESE 1/8 - 1/4 (0.156 mi.)***	***S137***	***331***
BARCLAYS CENTER AT A EPA Id: NYR000173948	***620 ATLANTIC AVENUE***	***SSE 1/8 - 1/4 (0.161 mi.)***	***T142***	***342***
DIFFERENCE CLEANERS EPA ID: NYD986985489	***696 FULTON ST***	***E 1/8 - 1/4 (0.162 mi.)***	***R145***	***380***
NYC DEP EPA ID: NYP003664224	***S OXFORD ST & LAFAYE***	***ENE 1/8 - 1/4 (0.209 mi.)***	***AA182***	***551***
195 FLATBUSH AVENUE EPA ID: NYD986962744	***195 FLATBUSH AVENUE***	***SSE 1/8 - 1/4 (0.235 mi.)***	***AG223***	***661***
CON EDISON SERVICE B EPA ID: NYP004346151	***32 5TH AVE & DEAN ST***	***S 1/8 - 1/4 (0.240 mi.)***	***AG229***	***694***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON EPA ID: NYP004304445	120 FLATBUSH AVE	SSW 0 - 1/8 (0.047 mi.)	B27	66
CON ED-MH 1840 EPA ID: NYP004008710	***LAFAYETTE AVE & ASHL***	***NNW 0 - 1/8 (0.065 mi.)***	***F35***	***76***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
BROOKLYN ACADEMY OF EPA ID: NYR000120097	***30 LAFAYETTE AVE***	***N 0 - 1/8 (0.066 mi.)***	***F37***	***82***
MTA NYCT - ASHLAND P EPA ID: NYR000201053	***LAFAYETTE & ASHLAND***	***NNW 0 - 1/8 (0.066 mi.)***	***F39***	***87***
CON EDISON EPA ID: NYP004596580	558 STATE ST	W 0 - 1/8 (0.072 mi.)	D45	124
MTA NYCT - FAN PLANT EPA ID: NYR000140780	***3 LAFAYETTE AVE***	***NW 0 - 1/8 (0.078 mi.)***	***D48***	***127***
CON EDISON - MANHOLE EPA ID: NYP004194619	***ROCKWELL PLACE & LAF***	***NW 0 - 1/8 (0.080 mi.)***	***D50***	***131***
CON EDISON EPA ID: NYP004194585	***ROCKWELL PL & LAFAYE***	***NW 0 - 1/8 (0.080 mi.)***	***D51***	***133***
CON EDISON EPA ID: NYP004159596	***543 ATLANTIC AVE***	***WSW 0 - 1/8 (0.100 mi.)***	***J71***	***163***
CON EDISON SERVICE B EPA ID: NYP004471272	***3RD AVE & FLATBUSH A***	***NW 0 - 1/8 (0.109 mi.)***	***M92***	***210***
CONSOLIDATED EDISON EPA ID: NYP004048427	TM0004-54TH ST CORNE	WNW 0 - 1/8 (0.111 mi.)	M95	214
NYCTA - PACIFIC STRE EPA ID: NYD986948990	***PACIFIC ST & FOURTH***	***SSW 0 - 1/8 (0.116 mi.)***	***H104***	***240***
CON EDISON SERVICE B EPA ID: NYP004437521	***535 ATLANTIC AVE***	***WSW 0 - 1/8 (0.116 mi.)***	***J105***	***243***
CON EDISON MANHOLE 2 EPA ID: NYP004240537	***STATE ST & 3RD AVE N***	***W 0 - 1/8 (0.118 mi.)***	***N107***	***246***
CONSOLIDATED EDISON EPA ID: NYD004053633	537 ATLANTIC AVE & 3	WSW 1/8 - 1/4 (0.130 mi.)	J119	263
CON ED-MH2599 EPA ID: NYP004053633	537 ATLANTIC AVE OPP	WSW 1/8 - 1/4 (0.130 mi.)	J120	264
CON EDISON MANHOLE 6 EPA ID: NYP004148151	***FULTON AVE & ASHLAND***	***NNW 1/8 - 1/4 (0.138 mi.)***	***P123***	***282***
CON EDISON MANHOLE 1 EPA ID: NYP004242756	***ASHLAND PL & FULTON***	***NNW 1/8 - 1/4 (0.138 mi.)***	***P124***	***284***
CON EDISON MANHOLE 2 EPA ID: NYP004240990	***3RD AVE & ATLANTIC A***	***W 1/8 - 1/4 (0.143 mi.)***	***N127***	***291***
CONSOLIDATED EDISON EPA ID: NYP004156097	ATLANTIC AVE & 3RD A	WSW 1/8 - 1/4 (0.144 mi.)	Q128	294
NYC DEP EPA ID: NYP003663929	***503 ATLANTIC AVE***	***W 1/8 - 1/4 (0.161 mi.)***	***Q143***	***377***
CON EDISON - MANHOLE EPA ID: NYP004335774	***31 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.174 mi.)***	***V151***	***417***
CON EDISON MANHOLE 2 EPA ID: NYP004249940	***3RD AVE & PACIFIC ST***	***WSW 1/8 - 1/4 (0.178 mi.)***	***Q154***	***423***
29 FLATBUSH ASSN LLC EPA Id: NYR000180448	***29 FLATBUSH AVENUE***	***NW 1/8 - 1/4 (0.178 mi.)***	***V156***	***427***
ROYAL FRENCH CLEANER EPA ID: NYD981081466	***68-32 3RD AVE***	***WSW 1/8 - 1/4 (0.188 mi.)***	***Y167***	***478***

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
SARAH J HALE SCHOOL EPA ID: NYD986947265	***3RD & PACIFIC AVE***	***SW 1/8 - 1/4 (0.193 mi.)***	***Z168***	***487***
PUBLIC SCHOOL 655K EPA ID: NYR000077164	***345 DEAN ST***	***SW 1/8 - 1/4 (0.193 mi.)***	***Z170***	***493***
CON EDISON EPA ID: NYP004579652	494 ATLANTIC AVE	W 1/8 - 1/4 (0.196 mi.)	AB175	512
THREE STARS CONTRACT EPA ID: NYR000069658	***479 ATLANTIC AVE***	***W 1/8 - 1/4 (0.198 mi.)***	***X176***	***513***
HUB THE EPA ID: NYR000207811	***333 SCHERMERHORN ST***	***WNW 1/8 - 1/4 (0.198 mi.)***	***AC177***	***515***
A & R CLEANERS EPA ID: NYD982535296	***74-15 3RD AVE***	***WSW 1/8 - 1/4 (0.202 mi.)***	***Y179***	***532***
CONSOLIDATED EDISON EPA ID: NYR000069682	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.209 mi.)***	***V185***	***557***
CVS PHARMACY #10086 EPA ID: NYR000205542	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.211 mi.)***	***AF189***	***576***
CON EDISON EPA ID: NYP004206951	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.211 mi.)***	***AF190***	***581***
CON EDISON EPA ID: NYP004702882	42 ROCKWELL PL	NNW 1/8 - 1/4 (0.211 mi.)	W191	584
CON EDISON SERVICE B EPA ID: NYP004353603	***23 ST FELIX ST***	***N 1/8 - 1/4 (0.217 mi.)***	***AD194***	***587***
NYNEX EPA ID: NYP000926550	3RD AVE & DEAN ST	WSW 1/8 - 1/4 (0.218 mi.)	Y197	592
CON EDISON EPA ID: NYP004577797	FO 548 FULTON ST	NW 1/8 - 1/4 (0.220 mi.)	AF199	595
CRISTALLO CLEANERS EPA ID: NYD981137938	***64 FOURTH AVE***	***SSW 1/8 - 1/4 (0.220 mi.)***	***AH200***	***596***
CON EDISON SERVICE B EPA ID: NYP004477774	***53 NEVINS ST***	***WNW 1/8 - 1/4 (0.223 mi.)***	***AC204***	***612***
CON EDISON MANHOLE 1 EPA ID: NYP004146494	***HUDSON AVE & FULTON***	***NW 1/8 - 1/4 (0.223 mi.)***	***AF205***	***614***
CON EDISON SERVICE B EPA ID: NYP004408118	***50 NEVINS ST FRONT O***	***WNW 1/8 - 1/4 (0.224 mi.)***	***AC206***	***616***
CON EDISON EPA ID: NYP004205290	***HUDSON AVE & FULTON***	***NW 1/8 - 1/4 (0.225 mi.)***	***AF210***	***625***
VO4196 EPA ID: NYP004061826	LIVINGSTON ST. & NEV	NW 1/8 - 1/4 (0.227 mi.)	AF211	626
CON EDISON EPA Id: NYP004194601	***NEVINS ST & LIVINGST***	***NW 1/8 - 1/4 (0.227 mi.)***	***AF212***	***627***
NYCDEP SHAFT 16A EPA ID: NYR000092551	***NEVINS AVE & STATE S***	***WNW 1/8 - 1/4 (0.228 mi.)***	***X213***	***630***
CON EDISON EPA ID: NYP004679083	31 ROCKWELL PL	NNW 1/8 - 1/4 (0.230 mi.)	AI215	633
CRICKET CLEANERS EPA Id: NYD981185408 Manifest Document Number: 004273569FLE	***68-09 FOURTH AVE***	***SSW 1/8 - 1/4 (0.232 mi.)***	***AH220***	***643***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LEE-VIC INDUSTRIES I EPA ID: NYD001375500	***88 THIRD AVE***	***WSW 1/8 - 1/4 (0.237 mi.)***	***AJ225***	***685***
CON EDISON EPA ID: NYP004634234	FO 6 NEVINS ST	NW 1/8 - 1/4 (0.240 mi.)	AF228	693
CONTINENTAL GENERAL EPA ID: NYR000020511	***472 ATLANTIC AVE***	***W 1/8 - 1/4 (0.240 mi.)***	***AB230***	***696***
CON EDISON EPA ID: NYP004622973	NAVINS ST & ATLANTIC	W 1/8 - 1/4 (0.244 mi.)	AL234	706
NYNEX EPA ID: NYP000931790	ATLANTIC AVE & NEVIN	W 1/8 - 1/4 (0.244 mi.)	AL235	707
CON EDISON MANHOLE: EPA ID: NYP004316717	***473 HUDSON AVE OPPOS***	***NNW 1/8 - 1/4 (0.245 mi.)***	***AI237***	***709***
NYCDEP EPA ID: NYP003661469	305 SCHERMERHORN ST	WNW 1/8 - 1/4 (0.246 mi.)	AC239	713
S & J BELT CLEANERS EPA ID: NYD986979441	***92-17 3RD AVE***	***WSW 1/8 - 1/4 (0.247 mi.)***	***AJ240***	***713***
CON EDISON EPA ID: NYP004628202	90 NEVINS ST	W 1/8 - 1/4 (0.249 mi.)	AL241	725

RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 01/01/2015 has revealed that there are 2 RI MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIFFERENCE CLEANERS EPA ID: NYD986985489	***696 FULTON ST***	***E 1/8 - 1/4 (0.162 mi.)***	***R145***	***380***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CRICKET CLEANERS EPA Id: NYD981185408 Manifest Document Number: 004273569FLE	***68-09 FOURTH AVE***	***SSW 1/8 - 1/4 (0.232 mi.)***	***AH220***	***643***

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 01/01/2015 has revealed that there are 10 NJ MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYCTA - A A BULK ST EPA Id: NY0000973693	***SE COR FLATBUSH & AT***	***S 0 - 1/8 (0.101 mi.)***	***K79***	***176***
MTA NYCT - LAFAYETTE EPA Id: NYR000168237	***S PORTLAND AVE & FUL***	***ENE 1/8 - 1/4 (0.146 mi.)***	***R130***	***299***
BARCLAYS CENTER AT A EPA Id: NYR000173948	***620 ATLANTIC AVENUE***	***SSE 1/8 - 1/4 (0.161 mi.)***	***T142***	***342***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NYCTA CPM ENVIRO ENG EPA Id: NYR000140780	3 LAFAYETTE ST	NW 0 - 1/8 (0.078 mi.)	D47	126

EXECUTIVE SUMMARY

Lower Elevation	Address	Direction / Distance	Map ID	Page
CON EDISON MANHOLE 2 EPA ID: NYP004240537	***STATE ST & 3RD AVE N***	***W 0 - 1/8 (0.118 mi.)***	***N107***	***246***
CON EDISON MANHOLE 1 EPA ID: NYP004242756	***ASHLAND PL & FULTON***	***NNW 1/8 - 1/4 (0.138 mi.)***	***P124***	***284***
CON EDISON MANHOLE 2 EPA ID: NYP004240990	***3RD AVE & ATLANTIC A***	***W 1/8 - 1/4 (0.143 mi.)***	***N127***	***291***
29 FLATBUSH ASSN LLC EPA Id: NYR000180448	***29 FLATBUSH AVENUE***	***NW 1/8 - 1/4 (0.178 mi.)***	***V156***	***427***
CON EDISON EPA ID: NYP004206951	***30 FLATBUSH AVE***	***NW 1/8 - 1/4 (0.211 mi.)***	***AF190***	***581***
CON EDISON EPA Id: NYP004194601	***NEVINS ST & LIVINGST***	***NW 1/8 - 1/4 (0.227 mi.)***	***AF212***	***627***

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 01/01/2015 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TARGET STORE NO.1849 Generator EPA Id: NYR000134130	139 FLATBUSH AVE	SSE 0 - 1/8 (0.069 mi.)	C41	91

NY DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the NY DRYCLEANERS list, as provided by EDR, and dated 01/12/2015 has revealed that there are 4 NY DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRENCH GARMENTS CLEA Facility Id: 2-6103-00260	85 LAFAYETTE AVE	NE 1/8 - 1/4 (0.149 mi.)	L135	327
DIFFERENCE CLEANERS Facility Id: 2-6103-00264	***696 FULTON ST***	***E 1/8 - 1/4 (0.162 mi.)***	***R145***	***380***

Lower Elevation	Address	Direction / Distance	Map ID	Page
K.S. PRIDE CLEANERS Facility Id: SHUT DOWN	711 FULTON STREET	NNE 0 - 1/8 (0.097 mi.)	G68	158
CRISTALLO DRY CLEANE Facility Id: 2-6103-00202	64 FOURTH AVE.	SSW 1/8 - 1/4 (0.220 mi.)	AH201	610

EXECUTIVE SUMMARY

NY E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the NY E DESIGNATION list, as provided by EDR, and dated 03/17/2015 has revealed that there are 11 NY E DESIGNATION sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOT 22,TAXBLOCK 2113	105 FT GREENE PLACE	NE 0 - 1/8 (0.062 mi.)	E34	76
LOT 31,TAXBLOCK 2113	FULTON STREET	NE 0 - 1/8 (0.081 mi.)	E54	139
LOT 8,TAXBLOCK 2116	733 FULTON STREET	ENE 0 - 1/8 (0.113 mi.)	L100	231
LOT 7,TAXBLOCK 2116	737 FULTON STREET	ENE 0 - 1/8 (0.119 mi.)	L109	250
LOT 6,TAXBLOCK 2116	739 FULTON STREET	ENE 0 - 1/8 (0.122 mi.)	L112	251
LOT 30,TAXBLOCK 2003	70 HANSON PLACE	E 0 - 1/8 (0.123 mi.)	I114	253

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOT 3,TAXBLOCK 2110	113 FLATBUSH AVENUE	W 0 - 1/8 (0.028 mi.)	A12	47
LOT 23,TAXBLOCK 174	100 FLATBUSH AVENUE	WSW 0 - 1/8 (0.035 mi.)	A20	58
LOT 18,TAXBLOCK 174	96 FLATBUSH AVENUE	W 0 - 1/8 (0.038 mi.)	A23	63
LOT 13,TAXBLOCK 174	80 FLATBUSH AVENUE	WNW 0 - 1/8 (0.054 mi.)	D31	71
LOT 9,TAXBLOCK 174	370 SCHERMERHORN STR	WNW 0 - 1/8 (0.109 mi.)	M91	210

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there are 2 EDR MGP sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FULTON WORKS	DEGRAW STREET AND NE	SW 1/2 - 1 (0.562 mi.)	AU289	895
FULTON MUNICIPAL WOR	NEVINS, DEGRAW AND S	SW 1/2 - 1 (0.594 mi.)	AU291	899

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 9 EDR US

EXECUTIVE SUMMARY

Hist Auto Stat sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	138 S OXFORD ST	ESE 1/8 - 1/4 (0.209 mi.)	AE184	557
Not reported	185 FLATBUSH AVE	SSE 1/8 - 1/4 (0.216 mi.)	AG193	587
Not reported	195 FLATBUSH AVE	SSE 1/8 - 1/4 (0.235 mi.)	AG224	684

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	378 SCHERMERHORN ST	WNW 0 - 1/8 (0.096 mi.)	D67	157
Not reported	20 4TH AVE	SSW 0 - 1/8 (0.102 mi.)	H85	202
Not reported	59 FLATBUSH AVE	NW 0 - 1/8 (0.120 mi.)	M111	251
Not reported	179 FLATBUSH AVE	S 1/8 - 1/4 (0.157 mi.)	T138	333
Not reported	592 PACIFIC ST	S 1/8 - 1/4 (0.158 mi.)	T140	339
Not reported	440 STATE ST	WNW 1/8 - 1/4 (0.250 mi.)	242	726

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 14 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	35 HANSON PL	ESE 0 - 1/8 (0.040 mi.)	C24	64
Not reported	666 FULTON ST	ENE 0 - 1/8 (0.107 mi.)	L89	208
Not reported	668 FULTON ST	ENE 0 - 1/8 (0.110 mi.)	L94	213
Not reported	674 FULTON ST	ENE 0 - 1/8 (0.120 mi.)	L110	250
Not reported	81 LAFAYETTE AVE	NE 1/8 - 1/4 (0.140 mi.)	L125	287
Not reported	85 LAFAYETTE AVE	NE 1/8 - 1/4 (0.149 mi.)	L133	316
Not reported	696 FULTON ST	E 1/8 - 1/4 (0.162 mi.)	R144	379
Not reported	769 FULTON ST	E 1/8 - 1/4 (0.173 mi.)	R150	417

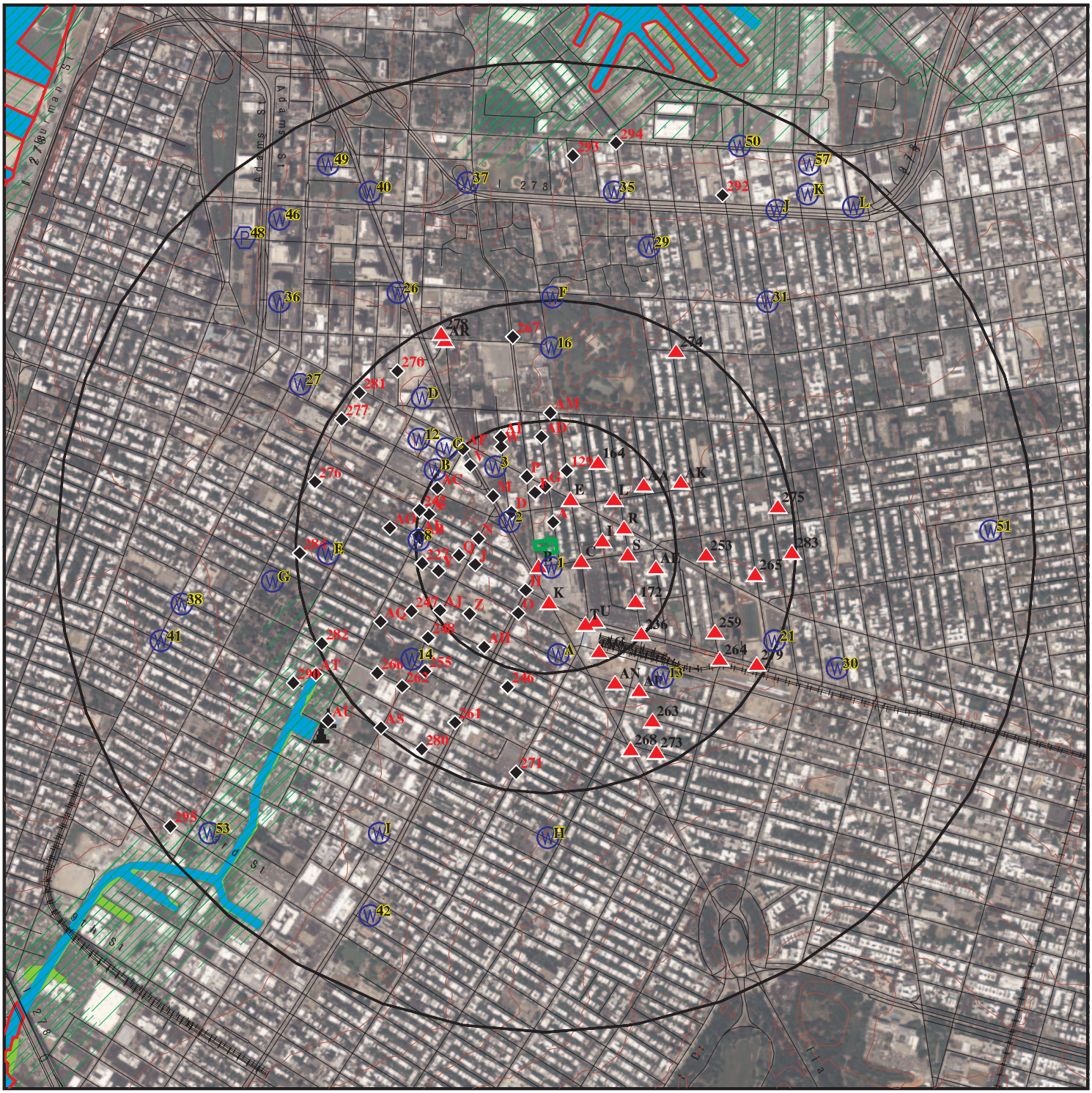
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	48 FLATBUSH AVE	NW 1/8 - 1/4 (0.181 mi.)	V159	464
Not reported	64 4TH AVE	SSW 1/8 - 1/4 (0.220 mi.)	AH202	610
Not reported	68 NEVINS ST	WNW 1/8 - 1/4 (0.230 mi.)	X214	633
Not reported	68 4TH AVE	SSW 1/8 - 1/4 (0.232 mi.)	AH219	642
Not reported	61 4TH AVE	SSW 1/8 - 1/4 (0.232 mi.)	AH221	659
Not reported	472 ATLANTIC AVE	W 1/8 - 1/4 (0.240 mi.)	AB232	702

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.

Site Name	Database(s)
DAVIDSON PIPE SUPPLY COMPANY	NY SHWS
CARROL GARDEN	CERC-NFRAP
J. WISE EXCAVATING	NY SWF/LF
455 SMITH STREET (VICHAR, INC.)	NY VCP
FULTON WORKS	NY VCP
FULTON MUNICIPAL WORKS	NY VCP
PLYMOUTH STATION	NY VCP
DANGMAN PARK	NY VCP
SKILLMAN STATION	NY VCP

OVERVIEW MAP - 4289483.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 130 St. Felix Street	CLIENT: Langan Engineering, Inc.
ADDRESS: 130 St. Felix Street Brooklyn NY 11217	CONTACT: Michele Rogers
LAT/LONG: 40.6858 / 73.9775	INQUIRY #: 4289483.2s
	DATE: May 08, 2015 4:12 pm

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DETAIL MAP - 4289483.2S

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 130 St. Felix Street	CLIENT: Langan Engineering, Inc.
ADDRESS: 130 St. Felix Street Brooklyn NY 11217	CONTACT: Michele Rogers INQUIRY #: 4289483.2s
LAT/LONG: 40.6858 / 73.9775	DATE: May 08, 2015 4:15 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		2	7	NR	NR	NR	9
RCRA-SQG	0.250		1	4	NR	NR	NR	5
RCRA-CESQG	0.250		6	6	NR	NR	NR	12
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
NY SHWS	1.000		0	0	0	4	NR	4
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
NY SWF/LF	0.500		0	0	2	NR	NR	2
State and tribal leaking storage tank lists								
NY LTANKS	0.500		5	10	40	NR	NR	55
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
NY TANKS	0.250		0	1	NR	NR	NR	1
NY UST	0.250		5	14	NR	NR	NR	19
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY AST	0.250		8	25	NR	NR	NR	33
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
NY RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY ERP	0.500		0	0	0	NR	NR	0
NY BROWNFIELDS	0.500		0	2	1	NR	NR	3
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
NY SWRCY	0.500		0	0	1	NR	NR	1
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		2	7	NR	NR	NR	9
NY HIST AST	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
NY LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		48	NR	NR	NR	NR	48
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		14	28	NR	NR	NR	42
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	1	NR	1
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	1	NR	1
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY UIC	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		26	52	NR	NR	NR	78
RI MANIFEST	0.250		0	2	NR	NR	NR	2
NJ MANIFEST	0.250		3	7	NR	NR	NR	10
PA MANIFEST	0.250		1	0	NR	NR	NR	1
NY DRYCLEANERS	0.250		1	3	NR	NR	NR	4
NY SPDES	TP		NR	NR	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY E DESIGNATION	0.125		11	NR	NR	NR	NR	11
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	2	NR	2
EDR US Hist Auto Stat	0.250		3	6	NR	NR	NR	9
EDR US Hist Cleaners	0.250		4	10	NR	NR	NR	14
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		0	140	184	44	10	0	378

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CLOSED-LACKOF RECENT INFO** **NY LTANKS** **S100145646**
126 ST. FELIX STREET **N/A**
< 1/8 **NEW YORK CITY, NY**
1 ft.

Site 1 of 18 in cluster A

Relative:
Lower

Actual:
44 ft.

LTANKS:

Site ID:	290853
Spill Number/Closed Date:	8907009 / 3/6/2003
Spill Date:	10/17/1989
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADMIN. CLOSED
Referred To:	Not reported
Reported to Dept:	10/17/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/20/1989
Spill Record Last Update:	3/19/2003
Spiller Name:	Not reported
Spiller Company:	BROOKLYN MUSIC SCHOOL
Spiller Address:	126 ST. FELIX STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	235513
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ADMIN.CLOSED"03/06/2003- Closed Due To The Nature / Extent Of The Spill Report
Remarks:	2K TANK FAILED PETRO TITE WITH A GROSS LEAK.CLOSED DUE TO LACK OF ANY RECENT INFO- DOES NOT MEET ANY CLEAN UP REQUIREMENTS.

Material:

Site ID:	290853
Operable Unit ID:	934774
Operable Unit:	01
Material ID:	443816
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

CLOSED-LACKOF RECENT INFO (Continued) **S100145646**

Tank Test:

Site ID:	290853
Spill Tank Test:	1536246
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

A2 **126TH STREET/FELIX STREET** **NY LTANKS** **S100494529**
126TH STREET/FELIX STREET **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 2 of 18 in cluster A

Relative:
Lower

Actual:
44 ft.

LTANKS:

Site ID:	315459
Spill Number/Closed Date:	9210971 / 12/22/1992
Spill Date:	12/22/1992
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	12/22/1992
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	12/22/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/22/1992
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	254325
DEC Memo:	Not reported
Remarks:	IN BASEMENT ON CONCRETE FLOOR OLD OIL LINE IN RESIDENCE LEAKING PETRO OIL ON SCENE AND CLEANING UP

126TH STREET/FELIX STREET (Continued) **S100494529**

Material:

Site ID:	315459
Operable Unit ID:	977921
Operable Unit:	01
Material ID:	404406
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A3 **VAULT 889** **NY Spills** **S102961969**
329 ASHLAND PL **N/A**
< 1/8 **BROOKLYN, NY**
1 ft.

Site 3 of 18 in cluster A

Relative:
Lower

Actual:
43 ft.

SPILLS:

Facility ID:	0211355
Facility Type:	ER
DER Facility ID:	247758
Site ID:	306762
DEC Region:	2
Spill Date:	2/13/2003
Spill Number/Closed Date:	0211355 / 9/26/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2/13/2003
CID:	405
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/13/2003
Spill Record Last Update:	9/29/2003
Spiller Name:	TOM MARCINEK
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	BILL MURPHY

VAULT 889 (Continued) **S102961969**

Contact Phone: (212) 580-6763
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "FOLEY"Con Ed e2mis #147170:2/13/03 - 1150G. PALLADINO - 46015 - BQE, REPORTS FINDING APPROX 5 GALS OF DIELECTRIC FLUID THAT LEAKED FROM THE BOTTOM OF A FIN OF THETRANSFORMER IN V889 (FDR 1B60) ONTO APPROX 75 GALS OF WATER. SPILL IS CONTAINED. NO SEWERS OR WATERWAYS AFFECTED. NO FIREOR SMOKE INVOLVED. NO INJURIES RELATED TO THE SPILL. NO PRIVATE PROPERTY AFFECTED. TAG # 39199 PLACED IN STRUCTURE. NO SEWER CONNECTIONS. NO SUMPS. NO LARGE CRACKS IN THE STRUCTURE. NO MOVEMENT IN THE WATER. PCB SAMPLE TAKEN FROM TRANSFORMER. OIL LEVEL IS GOOD. HISTORICAL PCB COUNT IS 19 PPM DTD MARCH 2002. CHAIN OF CUSTODY FORM # CC11291 FILLED OUT AND MARKED 'E' (WITHIN 8 HRS) PRIORITY. CLEANUP PENDING FDR OUTAGE, PCB RESULT AND TRANSFORMER REMOVAL.UPDATE 2-13-03 1820 HRS THIS CLEANUP WILL NOT START BECAUSE UNSAFE TO DO UNTILL 1B60 COMES OFF ON EMERG. THIS WILLNOT BE TAKEN OFF UNTILL SOME TIME ON FEB -14-03 (NO APPROX TIME) DUE TO 1B59 BEING OFF AT THIS TIME AND SYSTEMCONDITION. LAZ # 04425UPDATE 2/13/03 18:45 HRS. THE INCIDENT DID NOT SHOW THAT C.I.G. WAS NOTIFIED. SOAX L. ZAMBRIO CHECKED WITH C.I.G. WHO STATEDTHEY WERE NOTIFIED (C.I.G. MURPHY WAS NOTFIED @ 12:49 HRS) E.VESCEUPDATE 2-13-03 2117 HRS CHEM LAB # 03-01298-001 21 PPM LAZ # 04425UPDATE: 2/15/03 - 1300J. MIDDLETON - ENV. OPS., REPORTS INITIAL CLEANUP COMPLETED BY DOUBLE WASHING STRUCTURE WITH BIO GEN 760. UNDER 50 TANKER ISDRAINING TRANSFORMER. TAG REMAINS PENDING TRANSFORMER REPLACEMENT. TJ - 504952/15/03=1420HRS S.FULLER REPORTS UNIT WAS DRAINED OF 175 GALLONS.UPDATE********** 6-6-03 13:30HRS G. KERN (ENV OPS) REPORTS, CLEANUP COMPLETED USING BIO GEN 760, DOUBLE WASHEDAND SEALED DRAIN. JOB 100% COMPLETED. S.PACE 49874.UPDATE********** 6-6-03 14:15HRS AS PER FEEDER REP H. BROWN, UNIT WAS REMOVED . S.PACE
Remarks: SPILL FROM THE TRANSFORMER IN THE VAULT - CON ED #147170 - HISTORIC PCB IS 19PPM - FROM MARCH 2002 - CLEAN UP PENDING THE FEEDER OUTAGE - NEW PCB TEST RESULTS AND TRANSFORMER REMOVAL

Material:
Site ID: 306762
Operable Unit ID: 862397
Operable Unit: 01
Material ID: 511147
Material Code: 0541A
Material Name: DIELECTRIC FLUID
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Facility ID: 9710706
Facility Type: ER
DER Facility ID: 247758
Site ID: 306763
DEC Region: 2

VAULT 889 (Continued) **S102961969**

Spill Date:	12/19/1997
Spill Number/Closed Date:	9710706 / 3/23/1998
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	12/19/1997
CID:	312
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/19/1997
Spill Record Last Update:	7/3/2000
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	128 WEST END AVENUE
Spiller City,St,Zip:	NEW YORK, NY 10023
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"Lisa Lukeshides: Con Ed ERT, 12/24/97 - The total quantity of transformer oil (<10 ppm) is 20 gallons and it is presumed to have entered the sewer. A 16" public sewer connection was found in the vault. It was discovered that there were three adjacentvaults involved in this spill. TM#941 was cleaned up on Dec 2. The remaining two vaults V889 and V2754 are partially clean awaiting the removal of the transformers only.3/22/98 e-mail from Con Ed ERT Lukshides:All three vaults were cleaned as of 2/9/98. One of the transformers did not hold a tightness test and was removed. Information on it's replacement will follow.4/13/98 from Brooklyn Customer Service Envrionmental Manager Steve Zalloughi:On 2/9/98 Environmental Operations reported that they recleaned vaults V - 2754, 889 & 941 and removed Yellow Stop Tag # 03496. The new transformer is in and this job is closed out. See Incident # 113729 for full report.
Remarks:	transformer leaked unk qty in vault - 10 ppm pcb - unk qty entered nyc sewer system

Material:

Site ID:	306763
Operable Unit ID:	1053605
Operable Unit:	01
Material ID:	569465
Material Code:	0020A
Material Name:	TRANSFORMER OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons

VAULT 889 (Continued) **S102961969**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

A4
WSW
< 1/8
0.002 mi.
11 ft.

Relative:
Lower

Actual:
44 ft.

TRANFORMER VAULT # Z4295 **NY Spills** **S106866963**
327 ASHLAND AVE **N/A**
BROOKLYN, NY

Site 4 of 18 in cluster A

SPILLS:

Facility ID:	0412697
Facility Type:	ER
DER Facility ID:	273581
Site ID:	338252
DEC Region:	2
Spill Date:	3/3/2005
Spill Number/Closed Date:	0412697 / 1/5/2006
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	3/3/2005
CID:	409
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/3/2005
Spill Record Last Update:	1/5/2006
Spiller Name:	ERT DESK
Spiller Company:	TRANFORMER VAULT # Z4295
Spiller Address:	327 ASHLAND AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-2241
DEC Memo:	e2mis no. 157463:3/3/05 - 1755hrs - Guy Palladino # 46015 OS Networks reports while performing a phase check on fdr 1B60 found 10 gallons unknown oil on 100 gallons water in V4295. This unit is on fdr 1B60. There is a drain to adjacent structure but after inspecting that structure he determined there is no evidence of oil in same. Unit is at min + level and Palladino will perform pressure test. Will advise of the results of same. Sample has been taken from unit - chain of custody # EE09207 - E priority. Env. stop tag # 37302 placed. Historical records indicate pcb results to be 19ppm - dated 10/9/02. Clean up pending sample results.Update - 1900hrs Manhole records

TRANFORMER VAULT # Z4295 (Continued) **S106866963**

indicate that there is a sewer drain from adjacent vault (V4219). This vault has not been affected by oil - only has water in it. Drain appears to beclogged or sealed since water is sitting in structure. Palladino is performing pressure test at this time.Update - 1910hrs Advised E. Cortes of the above information that the adjacent structure V4219 appears to have a sewer drain as per the mh information and that it is not affected by oil.EPA# 004129326Update - 3/3/05 1930hrsG. Palladino reports unit failed pressure test. Unit being taken off on a Priority 2. Cannot take fdr 1b60 off until fdr 1b51 comes back online. Networks will remain on location. Courier is picking up sample.From: Brown, BrianSent: Thursday, March 03, 2005 11:16 PMTo: Neville, ChristineSubject: Update for VS Ashland Ave & Willoughby St. (Incident # 157463)Update for VS Ashland Ave & Willoughby St. (Incident # 157463):An >50 Tanker arrived at V4295 and pumped out the oil from the structure. The Environmental Crew left the location. A network Crew remains at the location with the setup.Lab Sequence Number: 05-01869-001 Date Approved: 3/04/2005TOTAL PCB 26 ppm3/04/2005 12:10 HRS. -- G. PALLADINO OF EQUIPMENT GROUP REPORTS HE CAME BACK OUT TO RE-INSPECT UNIT AFTER OIL & WATER WAS REMOVED FROM THE VAULT. ADDED 10 GAL OF TRANSFORMER OIL TO UNIT, BRINGING IT TO A "50" OIL LEVEL. PRESSURE-TESTED UNIT AT 7 LBS. FOR 2 HOURS AND PRESSURE DID NOT DROP. HE ALSO SEES WHAT APPEARS TO BE FUEL OIL COMING THROUGH WALLS OF VAULT. THIS IS A POSSIBLE THIRD PARTY SPILL SINCE VAULT IS LOCATED ALONGSIDE HEATING FACILITY BUILDING FOR BROOKLYN HOSPITAL AND THEY ARE DOING WORK ON BOILERS. UPON THIS FURTHER INSPECTION, HE DETERMINED TRANSFORMER IS NOT LEAKING AT THIS TIME, BUT WILL FOLLOW-UP AND RE-INSPECT OIL LEVEL IN A WEEK. HE ALSO TOOK TWO OIL SAMPLES FROM STRUCTURE: ONE FOR OIL ID TEST AND ONE FOR PCB TEST. HE ALSO REQUESTED I NOTIFY EH&S TO FOLLOW-UP ON POSSIBLE THIRD-PARTY SPILL.3/04/2005 12:25 HRS. -- I CONTACTED ON CALL EH&S REP. EDGAR CORTES, HE REPORTS HE ALREADY SPOKE WITH PALLADINO ABOUT INCIDENT AND REQUESTED A FLASH POINT SAMPLE BE TAKEN. I CALLED G. PALLADINO BACK AND HE SAID HE WILL MARK CHAIN OF CUSTODY FORM FOR OIL ID AND FLASHPOINT TESTS. SINCE ORIGINAL PCB RESULTS WERE FOR SAMPLE FROM TRANSFORMER (WHICH IS NOT LEAKING), HE WILL CONTACT E. CORTES TO SEE IF PCB TEST FOR OIL IN VAULT IS ALSO NEEDED.3/04/2005 15:13 HRS. -- G. PALLADINO REPORTS SAMPLES FOR OIL ID AND FLASH POINT WILL BE DELIVERED TO CHEM LAB ON CHAIN OF CUSTODY FORM # DD-05475.Lab Sequence Number: 05-01908-001 Date Approved: 3/04/2005Analysis indicates the presence of a transformer oil.Lab Sequence Number: 05-01907-001 Date Approved: 3/04/2005Flash Point, PMCC > 140 deg F D93-00/EPA 1010Update - 1725hrs - 3/7/05G. Palladino reports took sample from structure. Courier picking up & delivering to chem lab.3-8-05 04:00hrs lab seq# 05-01989-001 31 ppm.UPDATE 3/9/05 14:18 HRS ENV OPS CARSON REPORTS STRUCTURE WAS DOUBLE WASHED WITH BIO-GEN 760, AND THE ENV TAG WAS LEFT IN PLACE PENDING PRESSURE TEST.-----Original Message-----From: Fernandez, CelestinoSent: Wednesday, March 09, 2005 9:57 PMTo: Hogan, Christopher MCc: Jacobi, George L.Subject: Oil Incident 1574633/9/05 = 1930 Hrs = Env. Op. Supv C. Fernandez reports that after Networks Supervisor G. Palladino and his crew pressure tested Vault 4295 and it held pressure they removed Env tag # 37302. Job is complete at this time.UPDATE 11/16/05 07:16OIL WAS DISCOVERED AGAIN ON 3/15/05,NEW INCIDENT #157612 WAS OPENED. THE TRANSFORMER WAS FOUND TO BE LEAKING. ID SAMPLES FROM STRUCTURE CAME BACK AS TRANSFORMER OIL. THE TRANSFORMER WAS DRAINED , REMOVED AND STRUCTURE WAS CLEANED ON 8/3/.05. STRUCTURE WAS CHECKED ON 8/11/05 AND NO OIL WAS FOUND. INCIDENT WAS THEN CLOSED.

TRANFORMER VAULT # Z4295 (Continued) **S106866963**

Remarks: CLEAN UP PENDING LAB RESULTS. FEEDER # 1B60 CON ED # 157463

Material:

Site ID:	338252
Operable Unit ID:	1100203
Operable Unit:	01
Material ID:	580453
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A5 West < 1/8 0.002 mi. 13 ft. **BROOKLYN ACADEMY MUSIC ANNEX** **NY Spills** **S110243843**
321 ASHLAND PL **N/A**
BROOKLYN, NY 11201

Site 5 of 18 in cluster A

Relative: Lower

Actual: 43 ft.

SPILLS:

Facility ID:	0913894
Facility Type:	ER
DER Facility ID:	375759
Site ID:	426871
DEC Region:	2
Spill Date:	3/31/2010
Spill Number/Closed Date:	0913894 / 5/18/2010
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	3/31/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/31/2010
Spill Record Last Update:	5/18/2010
Spiller Name:	JASON HAYES
Spiller Company:	BROOKLYN ACADEMY MUSIC ANNEX
Spiller Address:	321 ASHLAND PL
Spiller City,St,Zip:	BROOKLYN, NY 11201
Spiller Company:	999

BROOKLYN ACADEMY MUSIC ANNEX (Continued) **S110243843**

Contact Name: JASON HAYES
Contact Phone: (212) 479-5427
DEC Memo: 3/31/10 - Raphael Ketani. Tank removal work was taking place today by staff from Langan Services when contaminated soil was discovered. The tank has a capactity of 1900 gals. and is in a vault. It used to contain #2 oil. Jason Hayes of Langan Services (212) 479-5427 was on site when the tank was pulled. The tank is located at BAM Annex, 321 Ashland Place, Brklyn, 11201.The PBS is #2-611272. There is one 1900 gal. UST that is temporarily out of service since 2/23/10. It held #6 oil. The owner of the property is the Brooklyn Academy of Music, 30 Lafayette Street, Brklyn, 11217, (718) 636-4153.I sent a CSL to Jonathan Jones at the Brooklyn Academy of Music. Later, I spoke to Mr. Hayes. He said that the property is being developed. They had removed the tank and the vault and discovered discoloration under the vault. So they dug down 6 to 7 feet and took a soil sample. It came back with SVOCs at about TAGM. They will take more samples.04/27/10 Email from Langan contains plan to remove the concrete vault slab, excavation of impacted material to the extent feasible, end point sampling(STAR VOCs and SVOCs), and preparation of a closure report.(sr)05/18/10 Tank closure report in edocs.AST was removed and five end point samples were collected from the bottom and side walls.No VOCs/SVOCs in soil samples.Tank closure report in edocs. Case closed.(sr)
Remarks: REMOVAL OF A 1900 GALLON VAULTED UST. SOIL IMPACTS WERE FOUND CLEAN UP PENDING.

Material:
Site ID: 426871
Operable Unit ID: 1182545
Operable Unit: 01
Material ID: 2176730
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

A6 WNW < 1/8 0.005 mi. 27 ft. | **THE BROOKLYN ACADEMY OF MUSIC ANNEX** | **NY AST** | **U004151162**
321 ASHLAND PLACE | **N/A**
BROOKLYN, NY 11217

Site 6 of 18 in cluster A

Relative: Lower
Actual: 42 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-611272
Program Type: PBS
UTM X: 586359.13500999997
UTM Y: 4504393.0155699998

THE BROOKLYN ACADEMY OF MUSIC ANNEX (Continued) **U004151162**

Expiration Date:	03/05/2015
Site Type:	School

Affiliation Records:

Site Id:	425563
Affiliation Type:	Facility Owner
Company Name:	BROOKLYN ACADEMY OF MUSIC
Contact Type:	DIR
Contact Name:	JONATHAN JONES
Address1:	30 LAFAYETTE AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-4153
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	6/15/2010

Site Id:	425563
Affiliation Type:	Mail Contact
Company Name:	LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES
Contact Type:	Not reported
Contact Name:	JOEL LANDES
Address1:	21 PENN PLAZA
Address2:	360 WEST 31 STREET , 8TH FLR
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 479-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/5/2010

Site Id:	425563
Affiliation Type:	On-Site Operator
Company Name:	THE BROOKLYN ACADEMY OF MUSIC
Contact Type:	Not reported
Contact Name:	JONATHAN JONES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 636-4153
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/5/2010

Site Id:	425563
Affiliation Type:	Emergency Contact
Company Name:	BROOKLYN ACADEMY OF MUSIC

THE BROOKLYN ACADEMY OF MUSIC ANNEX (Continued) **U004151162**

Contact Type:	Not reported
Contact Name:	JONATHAN JONES
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 636-4153
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/5/2010

Tank Info:

Tank Number:	001
Tank Id:	233227
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
E02 - Piping Secondary Containment - Vault (with Access)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Temporarily Out of Service
Pipe Model:	Not reported
Install Date:	01/01/1985
Capacity Gallons:	1900
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	02/23/2010
Register:	True
Modified By:	MSBAPTIS
Last Modified:	03/08/2010
Material Name:	#6 Fuel Oil (On-Site Consumption)

A7 SW < 1/8 0.008 mi. 42 ft. | **VAULT 2014 351 ASHLAND PL BROOKLYN, NY** | **NY Spills** | **S105058940 N/A**

Site 7 of 18 in cluster A

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	0103988
Facility Type:	ER
DER Facility ID:	152766
Site ID:	182317
DEC Region:	2
Spill Date:	7/11/2001
Spill Number/Closed Date:	0103988 / 7/29/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	7/14/2001
CID:	403
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/14/2001
Spill Record Last Update:	7/29/2003
Spiller Name:	CALLER
Spiller Company:	CON ED
Spiller Address:	4 IRVING PL
Spiller City,St,Zip:	NEW YORK, NY
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	(845) 496-6496
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con Ed e2mis #138154:7/11/01 12:25 HRS.A. LOSCHIAVO #38089, O.S. WITH BROOKLYN/QUEENS EQUIPMENT GROUP, REPORTS WHILE ON LOCATION FOR REPAIR AT 12:15 HRS. FOUNDAPPROX. 4 GAL. UNKNOWN OIL MIXED WITH DIRT IN V-2014. TRANSFORMER PRESSURE-TESTED AND NOT LEAKING. VAULT HAS DRAIN, BUTNO SUMP. SPILL APPEARS TO BE CONTAINED.VAULT PRINT FOR V-2014 INDICATES DRAIN ONLY.** TRANSFORMER MFR DATE: 7/01/1953, HISTORICAL PCB COUNT: 10 PPM.UPDATE 7-12-01 0100 HRS LAB SEQ# 01-07246-001 4PPM.UPDATE: 7/13/01 - 1030J. CAMPANILE - PLANNER - EQUIP GP, REPORTS FINDING A PIN HOLE LEAK IN THE TOP OF THE TRANSFORMER FIN WHILE CLEANING OFF THETOP OF THE TRANSFORMER TO ADD OIL. THE FIN IS LEAKING APPROX 1 DROP EVERY 2 SECONDS. DIAPERS WERE WRAPPED AROUND THE FINTO PREVENT FURTHER DRIPPING. APPROX 1 PINT OF OIL HAS DRIPPED OUT. TRANSFORMER HAS BEEN CALLED IN FOR A PRIORITY 2 LEC. PCBSAMPLE TAKEN FROM TRANSFORMER. CLEANUP TO BE DONE UPON LEC, DRAINING AND REMOVAL OF UNIT.UPDATE: 7/13/01 - 1200A. LOSCHIAVO - O.S. - EQUIP GP, REPORTS FINDING APPROX 1 PINT OF OIL MIXED WITH DIRT ON FLOOR AND CEMENT PIT OF BUSSCOMPARTMENT ADJACENT TO V2014. OIL SEEPED INTO BUSS COMPT THROUGH DRAIN FROM V2014. LAB RESULT FROM

VAULT 2014 (Continued) **S105058940**

V2014 WILL ALSO BEUSED IN BUSS COMPT. A TAG WITH THE SAME NUMBER AS THE TAG IN V2014 WILL BE PLACED IN BUSS COMPT.UPDATE @ 1955 HRS 7/13 A.WALKER REPORTS PARTIAL CLEANUP WITH SLICKS & DOUBLE WASHED.7/14/01 lab seq# 01-07344-001 2ppm.UPDATE: 7/14/01 - 1240S. FULLER - EQUIP GP, REPORTS TRANSF DRAINED OF 390 GALS. TRANSF HOLDS 440 GALS. THERE ARE 50 GALS MISSING.UPDATE @ 1355 HRS 7/14 J.CAMPANILE REPORTS SUMP PUMP FOUND UNPLUGGED, CHECKED PIPING FOUND NO EVIDENCE OF OIL. PRESSURETEST OF TRANSFORMER DONE ON FIRST DAY WAS OK.UPDATE: 12/27/01 - 1645J. LIPORI - ENV. OPS., REPORTS <1.0 PPM CLEANUP COMPLETED BY DOUBLE WASHING STRUCTURE WITH SLIX. WASTE PRODUCT REMOVEDWITH VACTOR. SUMP FOUND CEMENTED. TRANSFORMER REPLACED.

Remarks: NO FIRE NO SMOKE NO PRIVATE PROPERTY. CON ED #138154

Material:

Site ID:	182317
Operable Unit ID:	840598
Operable Unit:	01
Material ID:	532498
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	4
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A8 West < 1/8 0.012 mi. 65 ft. | **VAULT 3007** | **NY Spills** | **S104195583**
351 ASHLIN PLACE | **N/A**
BROOKLYN, NY

Site 8 of 18 in cluster A

Relative: Lower

Actual: 43 ft.

SPILLS:

Facility ID:	9907684
Facility Type:	ER
DER Facility ID:	186977
Site ID:	226528
DEC Region:	2
Spill Date:	9/25/1999
Spill Number/Closed Date:	9907684 / 8/17/2000
Spill Cause:	Equipment Failure
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	COMENALE
Referred To:	Not reported
Reported to Dept:	9/25/1999
CID:	199
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False

VAULT 3007 (Continued) **S104195583**

Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/25/1999
Spill Record Last Update:	11/8/2004
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	STEVE ROMERO
Contact Phone:	(212) 580-6763
DEC Memo:	e2mis no. 128005:9/25/99 08:40 hrsS. Fuller #37342, Splicer with Bklyn/Queens Equipment Group, reports while responding to oil alarm in V-3007 (fdr 1B56) at 08:25 hrs. found approx. 20 gal. transformer oil leaked onto dirt on floor of vault, f/o 351 Ashland Pl, bet. Hanson Pl. & Lafayette Ave. Source of oil visually determined as leak in bottom of transformer (could not perform pressure test since unit is below min oil level). Historical PCB results indicate 22 ppm. Vault has drain to sump in adjacent bus compartment -- that sump pump has been disabled and there is no oil in the sump pit. Spill appears to be contained to vault. No sewers or waterways affected. Env. stop tag #08638 placed. Liquid sample taken from source on 4-6 hour turnaround. Due to amount of oil, Equipment Group to remain on location until Env. Ops crew responds. Will treat as 50-499 ppm pending results - cleanup will start when feeder is taken off system.-- Records indicate transformer mfr date 7/1/1953 and installed 1/1/1956-- Vault print indicates drain in V-3007 -- adjacent bus compartment shows sump pump and sewer connection.-- Notified Bklyn Env Ops supervisor K. Kavanagh, Env Ops crew will respond.9/25/99 13:05 HRS -- LAB SEQ #99-10073, 14 PPM PCB. UPDATE: 9/25/99 14:50HRS S. FULLER CALLED AND STATED TOOK MEASUREMENT AND FOUND A 50 GALLON LOSS FROM TRFS. NOT 20 GALLONS AS PREVIOUSLY REPORTED. CHECKED NORTH COMPARTMENT, ADJACENT TO THIS VAULT, AND FOUND NO OIL AND UNPLUGGED SUMP PUMP. NO DISCHARGE OF OIL IN ADJACENT COMPARMENT.UPDATE 9-25-99 1830 HRS S.FULLER NETWORK REPORTS AT 1815 HRS HE DRAIN TRANSF IN V3007 AND REMOVED 385 GALLONS OF OIL.update 0927 9/27 D.HEARNS OS EQUIPMENT REPORTS CAN NOT REMOVE UNIT AT THIS TIME DUE TO DISCOVERY OF OVER 10 SQUARE FEET OF ASBESTOS, REQUIRING AN ASBESTOS ABATMENT. S.ZALLOUGHI WILL NOTIFY BK'LN ENVIROMENTAL OPS.update 12:05 9/28/99 k.kavanagh reported 1 1/2 barrells oiley dirt removed. connecting drain between vault and spl. chamber has been plugged. isol. vault #3007 from connecting units. oil-absorb set up as berm around sump and infront of def. trans. as added precaution. this should prevent any possable migration of any oil that might flow due to introduction of water into this vault from rain. unit on longer required to be maned around the clock. env. ops. to periodically monitor vault untill unit has been removed and structure has been cleaned 100%.UPDATE: 11/1/99 20:55HRS V. VAVALLO CALLED AND STATED THAT ALL ASBESTOS HAS BEEN REMOVED.UPDATE: 11/18/99 - 1615 A. GLODOWSKI - 18711 - ENV. OPS., REPORTS 14 PPM CLEANUP COMPLETED USING SLIX AND TAG # 08638 REMOVED. INCIDENT IS CLOSED. UPDATE: 1/7/02 1130 HRS. DEFECTIVE TRANSFORMER WAS REMOVED 11/18/99.
Remarks:	EQUIP FAILURE OF TRANSFORMER CAUSED MATERAL TO LEAK INTO VAULT VAULT LOCATED BTWN - HANSON PLACE AND LAFAYETT AVE - HISTORICALRECORDS SHOW 22 PPM OF PCB - CLEAN UP PENDING EQUIP REMOVAL FROMSERVICE - CON ED

VAULT 3007 (Continued) **S104195583**

SPILL #128005

Material:

Site ID:	226528
Operable Unit ID:	1081979
Operable Unit:	01
Material ID:	300375
Material Code:	0020A
Material Name:	TRANSFORMER OIL
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A9 SSW < 1/8 0.027 mi. 141 ft. **HSBC BANK** **NY LTANKS** **S105997119**
1 HANSON PLACE **NY Spills** **N/A**
BROOKLYN, NY

Site 9 of 18 in cluster A

Relative: Higher

Actual: 46 ft.

LTANKS:

Site ID:	306480
Spill Number/Closed Date:	0207736 / 6/26/2003
Spill Date:	10/25/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	10/25/2002
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/25/2002
Spill Record Last Update:	6/26/2003
Spiller Name:	Not reported
Spiller Company:	HSBC BANK
Spiller Address:	1 HANSON PL
Spiller City,St,Zip:	BROOKLYN, NY -
Spiller County:	001
Spiller Contact:	ISLAND PUMP & TANK
Spiller Phone:	(631) 462-2226
Spiller Extention:	Not reported
DEC Region:	2

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DER Facility ID: 264724
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"10/25/2002 Sangesland was on "Desk Duty" and sent out a tank test failure form letter11/1/2002: RECEIVED FAX FROM FRANK DIANDREA WHICH INDICATE THAT THE TANK PASSED THE TEST TODAY. THEY FOUND 2 MANWAY GASKETS BAD. THEY WILL BE TESTING PIPING WHEN THEY CAN LOCATE BUILDING PLAN TO DETERMINE WHERE PIPING TRAVELS. FAX FILED WITH LETTER OF TANK TEST FAILURE. ARS.1/30/2003-Vought-Duty Desk received message from Rich Baldwin (631-499-2222) inquiring about project manager. Vought called Baldwin and spoke with him. Baaldwin will be performing three soil borings along two parallel fill lines. If soil contamination is found lines will be replaced. Tipple will require work invoice, passing system test and soil samples if old fill line needs to be abandoned in place.3/6/03 Tipple spoke with R. Baldwin and suggested staggering the borings along the piping run if the markouts show that it is feasable. If contaminated soil is encountered in the borings no analyticals need be tested at this point in the investigation if a digout is to follow.4/8/03 Tipple spoke with R. Baldwin contamination found to a depth of approx.17 ft bgs. to be delineated laterally and a work plan to be produced.4/10/03 Summary of field activities submitted to DEC continued investigation planned. see file6/26/03 tipple reviewed investigation report and nfa was issued
Remarks: ISOLATE AND RETEST

Material:
Site ID: 306480
Operable Unit ID: 859321
Operable Unit: 01
Material ID: 514745
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 306480
Spill Tank Test: 1527619
Tank Number: 1 & 2
Tank Size: 6000
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

Site ID: 328931
Spill Number/Closed Date: 0402131 / Not Reported
Spill Date: 5/18/2004

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Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	5/26/2004
CID:	407
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	5/26/2004
Spill Record Last Update:	5/14/2014
Spiller Name:	RICHARD TEDALDI
Spiller Company:	HSBC BANK
Spiller Address:	1 HANSON PLACE
Spiller City,St,Zip:	BROOKLYN, NY 11243
Spiller County:	001
Spiller Contact:	RICHARD TEDALDI
Spiller Phone:	(212) 525-3928
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	264724
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SAWYER"5/26/2004 Sangesland spoke to William Schlageter of Freudenthal & Elkowitz. He said he works for the property owner and finally got approval today to call in a spill that was discovered on May 18th.On May 18th, during a walk through of a subbasement, several puddles of fuel oil were found outside of an oil tank containment room. The room contains two 7,000 AST's that were probably installed around 1928. At some point in the history of the building, they believe the room was filled in with cement. This now means that the two tanks are totally encased in cement up to several feet thick around the tanks.The tanks were recently presure tested. One tank passed, the other tank had an "inconclusive" test result. This tank has been taken out of service and has been drained (except for the final 400 gal which can't be easily removed).Mr. Schlageter's company is coming up with a plan to completely clean out this "inconclusive" tank, clean up the site and then identify the extent of contamination on the site.Contaminated Soil Letter sent to:William SchlageterFreudenthal & Elkowitz368 Veterans Memorial HwyCommack, NY 117256/7/04 - Sawyer - Received a detailed work plan through e-mail from William of F&E.1/21/05 - Sawyer - Met Richard Baldwin & Bill Schlaghter of Freudenthal & Elkowitz Consulting Group at the above address. Received basic tour of affected areas and witness working recovery system in basement. Checked outside to see how close to subway exterior wall is located. Rich and Bill proposed insitu remediation for the contaminated soil between the outside wall and the subway. They will send more information.Transferred to CO (MJSCIBEL)5/30/2006 - Mike - Contacted Freudenthal & Elkowitz Consulting and asked for an update on the project.7/26/06 - Mike -

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Left another message for an update with F+E.3/30/07 - Austin - Trasferred to Patel for further review - end04/10/07-Hiralkumar Patel.alternate addresses: 325-351 Ashland Place, 1-9 Hanson PlacePBS #: 2-607998. as per PBS record, the site had one 7,000 gal AST on saddles and one 7,500 gal AST in subterranean vault with access. both tanks were used to store #2 oil and were closed-in-place.other spills: 8605094, 9710706, 0103988, 0207736, 0211355, 0412697spill #: 8605094 was reported on 11/10/1986 as ethylene chloride was seeping into air conditioning system. case closed.spill #: 9710706 was reported on 12/19/1997 by ConEd, due to transformer oil leak into vault. case closed.spill #: 0103988 was reported on 07/14/2001 by ConEd, due to transformer oil leak into vault. case closed.spill #: 0207736 was reported on 10/25/2002 due to tightness test failure for two #2 oil tanks. during subsequent work, contamination was found along the two fill lines. case closed after reviewing investigation report.spill #: 0211355 was reported on 02/13/2003 due to transformer oil leak into vault. case closed.spill #: 0412697 was reported on 03/03/2005 by ConEd, due to oil in vault. case closed.the subject spill reported after findings of oil/water in crawl space under sub-basement.
----------**********----------**********
----------review of available documents under spill #: 0207736:1) 10/25/2002: Duty desk officer sent TTF to HSBC Bank.2) 10/31/2002: fax from Island Pump and Tank Corp.:- after replacing bad manway gaskets, two tanks passeed test- will test piping3) 03/04/2003: Site Investigation Plan:- work plan for subsurface investigation along leaking fill lines- fill line runs about 15 ft under sidewalk- proposed to install three borings: one at fill port, one in midway and one at the building wall4) 04/02/2003: Soil Investigation Results:- ASTs are located in vaults in sub-basement level of the building- two sets of fill port piping and conduits located along the western side of the property- fill piping was probed (using fill port) utilizing a steel measuring tape and determined to elbow 90 degrees (from vertical to horizontal) towards the exterior building wall at a depth of 89 inches (7.4 ft) bgs less than ==========- two pipes were determined to occupy an area between 24 to 27 inches and the interior walls were determined to be aprpox. 6 to 8 inches apart- two subgrade natural gas lines were traced from connection boxes located within the sidewalk to the north of the location of the fill port piping. the natural gas lines were determined to transect the location of the fill lines in a north-south direction approx. 7.5 ft west of the exterior building wall less than ==========- building drawings indicate that a subway wall runs in a north-south direction at an unknown depth, approx. 8 ft from exterior building wall less than =========- three soil borings (B-1, B-2 and B-3) were installed along fill lines- boring B-1 was installed 50 inches west of the exterior building wall, in order to avoid the "building foundation which extended approx. 3 ft to the west of the building wall" less than ========- refusal encountered at a depth of 12 ft bg in boring B-1, in the form of brick and concrete debris believed to be potentially associated with the underlying subway system- boring B-2 was installed to a depth of 20 ft bg- no contamination noted in soil from 18-20 ft depth in boring B-2- boring B-3 was installed to a depth of 10 ft bg where refusal encountered- petroleum-impacted soil was discovered in depth from aprpox. 6 to 17 ft bg- no samples were submitted for lab analysis5) 06/25/2003: Summary of Spill Investigation:- installed 12

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soil borings- the area of impact was estimated to be approx. 15.25 ft from north to south and extend the entire width of the concrete sidewalk (15 ft) along the western portion of the site- based upon field characteristics, four soil samples (B-5, B-11, B-13 and B-14) were collected from the "edges" of the area of impact less than =======- soil samples were collected to be representative of the depth at which the most significant field characteristics of fuel oil impact (ranging from 7.5 to 11 ft bgs) were observed in borings with the area of impact- based upon a review of MTA drawings, the roof of the subway tunnel is situated at a depth of approx. 27 ft below the concrete sidewalk and approx. 20 ft below the fuel oil fill line less than ==========- based upon the vertical delineation of the area of impact (17 ft bg), the roof of the subway lines is 7 ft below the fuel oil-impacted soils6) 06/26/2003: DEC Tipple issued no further action
letter.-----------------****************-----------------*************
***-----------------review of available documents for the subject spill:*-*
-*-*-*-*-*-*-*-*-*-*-*1) 05/26/2004: DEC Sangesland sent letter requiring subsurface investigation.2) 06/07/2004: Investigation Work Plan, submitted by F&E:- subject property is situated at the northwest corner of the intersection of Hanson Place and Ashland Place- the property is currently improved with a commercial clock-tower building constructed circa 1927-1928- two 7000 gal #2 ASTs are located within a vault in the sub-basement level adjacent to the west wall of the building along Ashland Place- floor of the sub-basement floor where the access hatch to the top of the AST vault is located, is at approx. 40 ft bgs- did tightness test on both tanks on 05/06/04: found Tank #2 (eastern side tank) tight and Tank #1 (western side tank) failed less than -------------- area of fuel oil was observed within the crawl space beneath an out-of-service flash tank formerly associated with the building's steam boiler system- area of fule oil is located outside the northwest corner of the bottom of tank vault, at the northern base of AST #1- during tightness test on 10/25/2002, found both tanks tight but fill lines were leaking (spill #: 0207736) less than ---------- based upon following results of investigation after leaking fill line findings, spill # 0207736 was closed: * depth of fuel oil impacted soils below the concrete surface (6-17 ft bgs) was such that the underlying NYC subway line was not being impacted from same * relativerly low concentrations of remnant fuel oil in subsurface soils * discountinued future use of the fuel lines * constraints due to subsurface features (subway line, natural gas utility)- groundwater is discharged, from area inside crawl space 30-40 ft away from fuel oil impacted area, by a sump pump system at over 100 gallon per minute to sewer system less than ----------- based on tank chart on wall, the ASTs are 70 inches in diameter, 33 ft 4 inches long- based upon teh reported depths of the sub-basement floor (40 ft bgs) and crawl space (45 ft bgs), and the dimensions of the ASTs (70 inches in diameter), the bottom of the ASTs and the associated vault, are at the same elevation of the crawl space and the fuel oil impacted area less than =============3) 07/14/2004: Interim Investigation Report, submitted by F&E:- fuel oil from AST #1 was removed- upon opening of the AST, several heating coils were observed within tank, likely utilized when the tank stored #4 or #6 fuel oil in the past less than =============- total of 578 gal of remnant fuel oil and bottom sludges were removed- bottom of the tank was observed to be slightly

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deteriorated in some locations, but no holes were observed within the wall of the AST- 3/4 inch diameter exploratory holes were cut through the north end of the tank at heights of approx. 52 inches, 35 inches and 17 inches above the bottom of the tank- a 10 by 10 inch hole was cut in the north end cap at 7 inches above the bottom of the tank to allow for the evaluation in the bottom conditions of the tank vault- dry fine-grained sand was observed to immediately pour into the AST from holes- no evidence of fuel oil impacts was observed within any of sands entering AST- northern vault wall was approx. 3 ft off the end of AST #1- backfill material (fine sand) was not observed under the southern end of the tank- bottom of AST lies approx. 33 inches above the base of concrete vault floor- top of the vault floor appears to occur several inches below the top of the crawl space floor less than ==========- based upon the water observed entering the weep hole in crawl space, the base of the vault may be constructed below the local water table. if correct, the groundwater is not entering into the vault indicating that vault is water tight. therefore, if oil had been released it would not likely have leaked through the water-tight vault less than ==========- after cleaning impacted area in crawl space, approx. 4 inch tall by 6 inch wide hole was observed within the western wall of the crawl space beneath the souther end of flash tank- hole is located at the base of the out-of-service elevator shaft and may be a "weep hole" for same less than ==========- mix of fuel oil and water enter the crawl space through the weep hole- conducted an initial mecahnical probe of the interior of the hole. it appears that the hole accesses a channel cut beneath the base of the out-of-service elevator shaft less than =========- according to facility personnel, the former elevator equipment was pully driven and didn't utilized hydraulic-oil containing equipment- bottom of weep hole appeared to be at least 3 inches below the floor of the crawl space. pooled water with floating oil was observed in the bottom of weep hole less than ----------4) 07/30/2004: Investigation report and Proposed Remedial Action Plan, submitted by F&E:- subway line runs approx. 7.3 ft west of building wall and the top of the tunnel is at 27 ft bgs, base of tunnel is at approx. 52 ft bgs- did soil borings 2.5 ft away from building wall- five borings (B-1A, B-2A, B-3A, B-4A and B-5A) were installed- oil impacts were not observed in boring #s 1A, 4A and 5A- only minor fuel oil impacts were observed in the unsaturated soils, from approx. 20-24 ft bgs in boring # 2A- soil impacted by fuel oil were observed from 4 ft bg through the entire unsaturated soil column (40-42 ft bgs) in boring # 3A- impacted soils appears to be limited to a 15 ft area between boring 2A and 4 (boring in April 2003) in the north-south direction- extent of impact to west could not be confirmed due to the presence of burried utilities and NYC subway (as per letter from NYC Transit: NYCT could not approve the proposed boring locations associated with the installation of test product recovery well and bio-vent cluster wells proposed to be installed within the sidewalk adjacent to the exterior western wall of the building. letter was issued on 12/15/2004) less than ---------- unsaturated soil in the area of concern were composed of fill materisl consisting of a heterogeneous mix of sand, silt, clay, gravel, concrete, brick, wood and other un-identifiable debris- native materials, consisting of gray fine and medium grained sand and/or silty sand, was encountered at approx. 40-42 ft bgs, coincident with the first occurrence of groundwater- groundwater was encountered in boring #s 1A, 2A, 3A and 5A (all borings terminated at

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depth of about 42 ft bgs) less than --------------- (borings done deeper than that done in 2003)- 0.5 inch to 1 inch of light non-aqueous-phase liquid (NAPL) was observed on water table in borings B-1A, B-2A, B-3A and B-5A- unmarked monitoring well observed in the sidewalk adjacent to Hanson Place. no NAPL was observed and groundwater was measured at 43.44 ft from the elevation mark on the well- groundwater was observed entering the crawl space of the building to the southeast of the oil impacted water in the weep hole. no odors were associated with this groundwater and no LNAPL or significant sheen. therefore, it does not appear that the LNAPL layer extends under the footprint of the building less than ================- conclusion: " neither of 7000 gal ASTs appeared to have leaked and contaminants are not present in the associated vault. fuel oil impacted soils area present from approx. 4 ft bgs to water table in the vicinity of boring 3A. 0.5 inch to 1 inch thick layer of NAPL is present along the western exterior of the building footprint" less than ------------5) 12/15/2004: Update on Remedial Activities:- installation of LNAPL recovery system within the crawl space is scheduled of 12/20/04- MTA indicated that wells could be installed within the sidewalk at the desired locations, however, the depth of the wells could only be completed to a depth within 5 ft of the roof of the underlying subway tunnel (which means wells allowed only to 22 ft bg) less than ======6) 09/29/2006: Project Update:- both ASTs have been abandoned-in-place less than ---------- F&E installed a concrete berm to contain the water/LNAPL mix entering the building's sub-basement through the weep hole less than ------------- the containmnent berm is equipped with a product-only pump which has successfully removed 70-80 gal of oil- due to presence of the subway line, the NYCTA will only allow biovent test wells to be installed to a max depth of 20 ft bgs- new owner of site: CJUF- CJUF conducting major renovation activities within the building, which has included the removal of the majority of the former equipment associated with the building's heating system- part of the sub-basement activities, the immediate vicinity of the LNAPL-recovery system has been isolated from the remainder of the sub-basement area by newly-constructed walls lined with plastic sheeting (the floor area had also been lined with plastic sheeting) less than ------ water level is well above the top of the weep hole through which the LNAPL had previously entered into building- elevated water level is likely attributable to the cessation of the high-capacity pumps formerly utilized to remove groundwater from the sub-basement crawl space area- F&E plan to seal the weep hole and remove any related equipment and accumulated groundwater from the containment area, if DEC approves it.- F&E requested closure of case based on following information: * primary potential route of exposure for LNAPL was through weep hole which is below water level now * extent of remnant fuel oil within the unsaturated zone underlying the sidewalk along Ashland Place is believed to be limited and present below 6 ft bgs, the invert elevation of the former product delivery lines * ongoing source of fuel oil (former leaking product lines) and two ASTs have been abandoned-in-place, thus no potential for future releases of fuel oilF&E recommended to conduct an exposure assessment to evaluate realistic potential exposure pathways before closing the case.*-*after reviewing available files, found that contamination that was found to depth of 17 ft in 2003 is moving deeper and found at depth of 42 ft bg during investigation in 2004.

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!!!!!!!!!! (not contained)Richard J. Baldwin, CPGVice President, Environmental ServicesFreudenthal & Elkowitz Consulting Group, Inc.1757-24 Veterans Memorial HighwayIslandia, New York 11749PH. (631) 499-2222Fax (631) 499-5928email: rbaldwin@fecg.uscurrent property owner:CJUF II Hanson LLCC/O The Dermot Company320 West 57th StreetNew York, NY 10019Contact: Alexander KrukisPh. (212) 262-1220 (212) 991-8006 (212) 488-1633Fax (212) 202-434904/13/07-Hiralkumar Patel. discussed with DEC Austin. his main concern was hydro-pressure from water outside the building as pump inside crawl space, which used to pump out groundwater from that area (100 gal per min), has shut down. because this pump shut down, water level is raising and now water with oil can enter through other week points in building or could enter into somebody else's basement or subway lines which running next to building. Austin asked for engineering evaluation of building at site and also sesitive receptor survey in area alongwith investigation inside subway tunnel. he also asked to contact NYC Transit regarding this matter.spoke with Mr. Baldwin and explained him the same. he will send report at end of work.04/17/07-Hiralkumar Patel. left message for Mr. Kurkis at Dermont company.left message for Liz Deluca (718-694-4271) at NYC Transit system safety.04/18/07-Hiralkumar Patel. spoke with Mr. Krukis. he will ask property owner/representative to call.04/19/07-Hiralkumar Patel. received message from Kristin Neil (212-488-1622). left message for Kristin.spoke with Liz at NYC Transit. she will send crew to check subway tunnel (servicing the M, N and R lines) for any oil leak into tunnel and will call back.04/20/07-Hiralkumar Patel. received call from Ms. Neil from Dermot company. they are aware of contamination and remediation at site and as per their agreement with HSBC, prior owner, HSBC will continue remediation at site. Ms. Neil will be contact person at new management. explained Ms. Neil that as part of remediation, the department may require installation of equipment inside building, which Ms. Neil agree with. 04/23/07-Hiralkumar Patel. received call from Liz from NYC Transit. they checked subway tunnel and found no oil leak or odors inside tunnel.04/24/07-Hiralkumar Patel. received email from Mr. Baldwin with contact info for person in HSBC:Christopher PhilippDirector, Environmental Health & SafetyHSBC Bank USA, National Association2700 Sanders RoadProspect Heights, IL 60070ph. (847) 564-6634fax (847) 205-7542email: chris.c.philipp@us.hsbc.comsent letter to Mr. Philipp (previous owner and responsible party) and Ms. Neil (current owner) requiring Exposure Assessment and soil/groundwater delineation via monitoring wells. letter emailed to Mr. Philipp, Ms. Neil (kneil@dermotcompany.com), Mr. Baldwin at F&E and Ms. Deluca (Elizabeth.DeLuca@nyct.com) in NYC Trasit.04/27/07-Hiralkumar Patel. received email from Mr. Baldwin requesting deadline extension for report submission. reason for extension is getting permits from city agencies for sidewalk borings. approved his request with condition of regular updates on the project.05/10/07-Hiralkumar Patel. received call from Steven Kaplan (631-499-2222), who will handle this project as Mr. Baldwin no longer work with F&E.06/14/07-Hiralkumar Patel. left message for Mr. Philipp.06/20/07-Hiralkumar Patel. received message from Gregory Ernst (631-499-2222). left message for Mr. Ernst.06/21/07-Hiralkumar Patel. received call from Mr. Ernst. he mentioned that site is currently under construction and have crane on sidewalk, where the department requires monitoring wells for delineation and as per construction manager, crane will be there for about nine months. and without site specific groundwater flow

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direction, Mr. Ernst can't do receptor survey. asked Mr. Ernst to send contact info for property owner and construction manager.Gregory ErnstSenior Project ManagerFreudenthal & Elkowitz Consulting Group, Inc.Ph. (631) 499-2222 (O) (516) 815-5151 (C)Fax (631) 499-5928email: gernst@fecg.usreceived email from Mr. Ernst. he spoke with property owner Ms. Neil. Ms. Neil mentioned that they have construction hoist on sidewalk, installed on concrete base and not possible to remove until project finish (at least 9-12 months). Mr. Ernst asked for site visit to locate sampling location.Kristin Neil **current owner's representative**Ph. (212) 488-1622email: kneil@dermotcompany.comsent email back to Mr. Ernst informing that before any site visit, the department requires work plan submitted. asked Mr. Ernst to visit site with Ms. Neil and submit work plan with scaled site map including: all former boring/well locations, proposed new well locations and location of construction hoist. aksed Mr. Ernst to submit work plan by 06/29/07.06/29/07-Hiralkumar Patel. received email from Mr. Ernst. he is preparing work plan and will submit by July 13, 2007. they will start exposure assessment once they get approval on work plan. Mr. Ernst mentioned that they can't install any monitoring wells for groundwater delineation as construction hoist is on sidewalk and drilling machine can't fit under scaffolding. based on construction schedule, monitoring well installation will be done after nine months.07/10/07-Hiralkumar Patel. discussed with DEC Austin. he asked to start dewatering from crwal space again to bring water level down to remove free product. left message for Ms. Neil (property owner) to install pumping system for such oil recovery. spoke with Mr. Ernst and asked him to contact owner for such installation. Mr. Ernst will contact owner and will call back.07/11/07-Hiralkumar Patel. received call from Ms. Neil. explained her that as monitoring well installation is not possible on sidewalk, the department wants pump installed (again) in basement to reduce water level, so oil can be recovered from basement area (as before).07/13/07-Hiralkumar Patel. received email from Mr. Ernst. abstract:- the pumping system which previously operated in the building has been removed and the basement walls and drainage areas grouted up to seal-off further groundwater infiltration into the building. therefore will not be able to restart groundwater pumping to renew free product recovery in the weep hole along Ashland Place.- have identified an opportunity to install two groundwater monitoring wells along theexterior of the building adjacent to Ashland Place in the vicinity of former boring locations B-3A and B-4A. as part of the reconstruction activities, a new sewer line is schedule to be excavated and installed approximately 20 feet north of the abandoned elevator shaft where the previous soil borings were drilled. During the sewer line excavation, the adjacent scaffolding and access ramp to the construction hoist will be temporarily dismantled. - currently plan to gain access to the former boring locations immediately following backfilling the sewer line excavation and prior to re-assembling the scaffolding and access ramp. the current schedule for the sewer line excavation and installation is for thatwork to begin within the next couple weeks and is expected to take six weeks to complete,thereby allowing us access for drilling in roughly six to eight weeks.- Freudenthal & Elkowitz will: prepare a work plan as you requested to conduct an Exposure Assessment and install the groundwater monitoring/product recovery well; prepare an accessrequest and drilling permit application and site plan to NYCTA to inspect the subway tunnel for indication of petroleum leakage and

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to install vibration monitoring equipment needed during drilling operations adjacent to the subway, and initiate Exposure Assessment activities of the surrounding properties.07/19/07-Hiralkumar Patel. spoke with Mr. Ernst regarding boring locations (B-3A and B-4A) that he mentioned in last email. from site map, B-3A was located closed to old fill port (source area, south of weep hole) and B-4A was located north of weep hole. both boring locations are about 30 ft apart. Mr. Ernst mentioned that owner is installing sewer line about 20 ft north of elevator shaft (weep hole) and after backfilling excavated area for sewer line, they have opportunity to install wells at some boring locations. Mr. Ernst mentioned that they will install monitoring wells (if get permission from MTA due to subway running parallel to site) at B-3A (close to source site) and B-1A (close to weep hole). Mr. Ernst also mentioned that boring B-4A was terminated at 27 ft depth (could be because of subway structure) before groundwater. asked Mr. Ernst to install well at location B-4A also and if get refusal before groundwater, asked him to try other point around B-4A (to see any oil going north of weep hole). asked Mr. Ernst to check possibility for monitoring well installation on south of previous boring location B-5A (for delineation purpose). mentioned to Mr. Ernst that if it requires to go across the street (Hanson Place) then install well on sidewalk on other side of street, eventhough that location is far away (by considering that due to parellel subway line groundwater must be flowing either in north or in south direction, so oil can be detected in monitoring well across the street)spoke with Mr. Neil. she will meet at site at 1:30 PM.07/20/07-Hiralkumar Patel. visited site. met Ms. Neil. went to basement. Ms. Neil mentioned that they have filled entire sub-basement/crawl space except part of weep hole area. there is no opportunity to install any pump for dewatering. Ms. Neil mentioned that they will remove scaffolding for sewer line installation. told Ms. Neil not to re-install scaffolding until they install monitoring wells on sidewalk. found one monitoring well in front of building entrance along Hanson Place.07/23/07-Hiralkumar Patel. spoke with Mr. Ernst. asked him to install monitoring wells on south of previous boring B-5A also and asked him to check one well in front of building (that was observed during site visit). Mr. Ernst will submit all plan to MTA and once he hear from them, he will forward all to the department.10/11/07-Hiralkumar Patel. left message for Mr. Ernst.spoke with Mr. Neil. they are still waiting for permit for sewer line installation. once they receive permit, they will remove scaffolding and will install require wells.11/07/07-Hiralkumar Patel. spoke with Mr. Ernst. he has submitted all required plan and documents to MTA, but hasn't got final authorization from MTA. he will call once gets approval and schedule for work.01/14/08-Hiralkumar Patel. spoke with Mr. Ernst. they are still waiting for approval from MTA. he mentioned that owner has changed plan to install sewer line. now they will not install sewer line where the department wants monitoring wells, in that case scaffolding will be removed only once project is finished.03/20/08-Hiralkumar Patel. spoke with Mr. Ernst. they got verbal approval from MTA. asked him to submit copy of written approval from MTA, once available, alongwith copy of plan submitted to MTA. as per Mr. Ernst, scaffolding may be removed in July 2008.12/01/08-Hiralkumar Patel. spoke with Mr. Ernst. he mentioned that scaffolding is still in place and according to owner, it will be removed in this month.left message for Mr. Krukis and Ms. Neil.12/15/08-Hiralkumar Patel. received

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message from Mr. Krukis. he mentioned that as construction is still going on, they can't install monitoring wells.12/17/08-Hiralkumar Patel. spoke with Mr. Krukis. he mentioned that sidewalk scaffolding will stay at the site for another four months, so they can't install wells that are required to delineate groundwater contamination.06/22/09-Hiralkumar Patel.4:32 PM:- received email from Mr. Ernst. he mentioned that scaffolding hasn't removed yet and trying to contact Mr. Krukis. he sent new office address for Christopher Philipp at HSBC.HSBC North America26525 N. Riverwoods Blvd.Mettawa, IL 60045Attn.: Christopher PhilippPh. (224) 544-2838Fax (224) 552-2838email: chris.c.philipp@us.hsbc.com07/06/09-Hiralkumar Patel.1:47 PM:- spoke with Mr. Krukis. he is no longer involved with this project. he asked to contact Maria Stamolis.Maria StamolisCanyon Capital Realty Advisors LLC.Ph. (310) 272-1568email: mstamolis@canyonpartners.com1:49 PM:- left message for Ms. Stamolis.1:53 PM:- sent email to Mr. Ernst to contact Maria for updates. email copied to Mr. Philipp.07/13/09-Hiralkumar Patel.11:16 AM:- received message from Paul Jennings.Paul JenningsHRH ConstructionsPh. (718) 622-4591 (O) (917) 567-5077 (C)email: pjennings@hrhllc.com07/17/09-Hiralkumar Patel.8:34 AM:- received message from Mr. Jennings.1:14 PM:- spoke with Mr. Jennings. he is expecting to remove scaffolding by mid of Nov. 2009. sent email to Mr. Jennings. asked him to submit updates monthly.12/01/09-Hiralkumar Patel.1:05 PM:- spoke with Mr. Jennings. they removed half of scaffolding and remaining half will be removed by week of Dec. 28, 2009.03/20/13-Hiralkumar Patel. passed by the site and found scaffolding still in-place.03/21/13-Hiralkumar Patel.10:04 AM:- left message for Ms. Stamolis.11:47 AM:- spoke with Ms. Stamolis. she mentioned that the building is condominium and owned by many parties. there are 179 individual condo residences, a commerical condominium, a retail condominimum and an antenna condominium. she will send email with contact info for property manager.12:31 PM:- received email from Ms. Stamolis. she mentioned that Cooper Square Realty, Inc. manages the property.Marc KotlerVice PresidentCooper Square Realty, Inc.Ph. (212) 634-5420Fax (646) 786-7106email: marc.kotler@coopersquare.comPeter KirschenbaumGeneral CounselCooper Square Realty, Inc.email: peter.kirschenbaum@coopersquare.com03/22/13-Hiralkumar Patel. discussed with DEC Austin. after reviewing available information, Austin agreed with well installation requirement. he mentioned that wells must be installed at previous boring locations for investigation/remediation.2:40 PM:- left message for Anthony Milstein, property manager at Cooper Square.One Hanson Place Condominium **property owner**c/o Cooper Square Realty, Inc.622 Third AvenueNew York, NY 10017Attn.: Anthony Milstein **property manager**Ph. (212) 634-5448Fax (646) 786-7133email: anthony.milstein@coopersquare.com04/08/13-Hiralkumar Patel.1:44 PM:- left message for Mr. Milstein.1:58 PM:- left message for Mr. Philipp.3:08 PM:- received call from Mr. Milstein. informed him about open case. Mr. Milstein was not aware of this open case. informed him that the department requires further investigation/remediation.tried phone number for Christopher Philipp, but that number is assigned to Capital One IT department and could not confirm Mr. Philipp's address.discussed with DEC legal and decided to send letter to current property owner only as could not find previous owner(s).Harvey Kreiswirth **condo board president**1 Hanson Place, Unit 14DBrooklyn, NY 11248email: harvey@usa.comYury Vinokur

HSBC BANK (Continued) **S105997119**

building superemail: rmhanson_place@yahoo.com4:06 PM:- sent letter to Mr. Milstein and Mr. Kreiswirth requiring submission of investigation work plan for delineation and exposure assessment. asked them to submit work plan by the end of 07/08/13. letter emailed to Mr. Milstein and Mr. Kreiswirth.4:29 PM:- received email from Mr. Kreiswirth confirming receipt of the letter.04/12/13-Hiralkumar Patel.1:50 PM:- received call from John Gear from Enviroscience. he was contacted by Mr. Milsteain. John inquired about available documents. informed him that documents will be sent to Mr. Milsteain.1:52 PM:- sent email to Mr. Milsteain including copy of work plan/reports.07/02/13-Hiralkumar Patel.3:57 PM:- received call from Kevin Hogan, attorney representing HSBC. he mentioned that condo owners has provided the department's letter dated 04/08/13, to HSBC and HSBC took responsibility for required investigation/remediation. currently, HSBC is working with environmental consultant. Mr. Hogan requested time extension to submit work plan. based on available information, approved his request and asked to submit work plan by the end of 09/02/2013.during conversation, Mr. Hogan mentioned about scaffolding around the site. informed him that property owner must address environmental issue and department may not approve anymore extension due to scaffolding around site (since 2008).Kevin Hogan **attorney for HSBC**Phillips Lytle LLP.3400 HSBC CenterBuffalo, NY 14203Ph. (716) 847-8331Fax (716) 852-6100email: khogan@phillipslytle.comMr. Hogan mentioned that Christopher Philipp is the person in-charge at HSBC.Christopher Philipp **HSBC's representative**VP Environmental Health & SafetyHSBC North AmericaHSBC Technology and Services, Inc.26525 N. Riverwoods BlvdMettawa, IL 60045Ph. (224) 880-7702email: chris.c.philipp@us.hsbc.com4:10 PM:- left message for Mr. Milstein. informed him about extension for submission of work plan. also informed him that the department may not approve any extension due to scaffolding and case may be referred for enforcement if work does not begin soon.4:15 PM:- sent email to Mr. Hogan. asked him to submit work plan by the end of 09/02/13. email copied to Mr. Milstein and Mr. Kreiswirth.07/03/13-Hiralkumar Patel.11:21 AM:- received call from Mr. Milstein. informed him about time extension approved for submission of investigation work plan. asked him to dicuss with HSBC and their contractor regarding scaffolding around site. informed him that environmental investigation must begin soon.08/21/13-Hiralkumar Patel.11:55 AM:- received call from Ernie Rossano and Nicole Reptti from Environmental Resources Management. Mr. Rossano mentioned that due to subway along side of the building, well installation may not be possible. he also mentioned about no impact in current building and sub-basement area is filled with at least 5 ft of concrete. informed Mr. Rossano that having no issue in on-site building does not mean no impact to other structures in area. as such, the department do require subsurface investigation. Mr. Rossano also mentioned about scaffolding around the building which can not be removed until building project is completed. asked Mr. Rossano to contact MTA regarding possiblity well installation, and building management to facilitate well installation. informed Mr. Rossano that response is due on 09/02/13.Ernie RossanoEnvironmentl Resources ManagementPh. (631) 756-8917email: ernie.rossano@erm.comNicole RepettiEnvironmentl Resources ManagementPh. (631) 756-8957 / 8900 (516) 315-4440 (C)email: nicole.repetti@erm.com08/29/13-Hiralkumar Patel.9:39 AM:- received email from Nicole from ERM, including letter in response to the department's letter dated 04/08/13. Nicole stated

HSBC BANK (Continued) **S105997119**

that ERM has submitted written request to NYCTA to review and copy the maps. Nicole requested time extension for the work plan submission until 11/18/13.09/09/13-Hiralkumar Patel.11:52 AM:- sent email to Nicole approving time extension for submission of investigation work plan until 11/18/13. email copied to Mr. Rossano, Mr. Philipp, Mr. Milstein and Mr. Kreiswirth.12:28 PM:- received email from Mr. Kreiswirth. he requested that future correspondences should be sent to Kevin Jones, instead of him.Kevin Jones **condo board member**email: kevin_p_jones@hotmail.com11/26/13-Hiralkumar Patel.1:16 PM:- received email from Ms. Rossano including an investigation work plan. abstract:- current owner filled in the crawl space that was located beneath the entire building footprint with approx. 3,000 yards of concrete and a vapor barrier to seal the space beneath the building- since 2006, no LNAPL has been reportedly observed entering the building or the adjacent NYCTA subway tunnel- three (3) soil borings (B-3A, B-4A and B-5A) which were previously installed by F&E will be re-installed using a hollow stem auger drilling rig- boring B-3A will be installed directly north of the former northern fill line- boring B-4A will be installed approx. 35 ft north of the former northern fill line- boring B-5A will be installed approx. 15 ft south of the former southern fill line- approx. 10 ft of material will be removed from each boring location with a vacuum extraction system- soil samples will be collected continuously from 10 ft to at least two ft into the water table (approx. 40 ft bg) using 2 ft long split spoon- at a minimum, all soil borings will extend below the water table by at least 2 ft or the vertical extent of contamination or to 50 ft bg maximum ---------- two samples (at highest PID and deepest dry) will be analyzed from each boring for VOCs and SVOCs- all three soil borings will be converted to 1 inch wells, with 10 ft of screen- will perform an exposure assessment- currently scaffolding along the entire length of the proposed investigation area and is scheduled to be removed in early 2014- will submit investigation schedule once scaffolding removeddiscussed with DEC Austin and DEC Vought. due to no activities since 2007, Austin asked to check with MTA regarding impact to nearby subway tunnel and drawdown well of the subway system.2:56 PM:- left message for Rajen Udeshi (646-252-3673) at NYC Transit.5:42 PM:- received call from Dana from Mr. Udeshi's office. she asked to contact John Malvasio in MTA's Maintenance of Way.John MalvasioMaintenance of WayMTAPh. (718) 694-13585:50 PM:- left message for Mr. Malvasio.12/05/13-Hiralkumar Patel.3:13 PM:- left message for Mr. Malvasio.12/20/13-Hiralkumar Patel.11:45 AM:- left message for Mr. Malvasio.12:26 PM:- received call from Mr. Malvasio. he asked to contact William Detore in his section, who handles environmental issues.12:28 PM:- left message for Bill.Bill DetoreMTAPh. (718) 694-1488email: william.detore@nyct.com01/28/14-Hiralkumar Patel.4:09 PM:- left message for Bill.01/29/14-Hiralkumar Patel.8:34 AM:- received message from Bill.2:37 PM:- left message for Bill.01/30/14-Hialkumar Patel.9:33 AM:- spoke with Bill at NYC Transit. informed him about ongoing spill investigation. asked him about any impact to nearby subway system. Bill will check available record and inspect the area.10:30 AM:- sent email to Bill with site summary. asked him to provide following information:- any oil seepage into the tunnel in the area- the nearest water pumping well02/24/14-Hiralkumar Patel.2:03 PM:- left message for (and sent email to) Bill inquiring update.05/14/14-Hiralkumar Patel.3:55 PM:- sent email to Bill inquiring updates.**subway at Atlantic Terminal:

HSBC BANK (Continued) **S105997119**

2, 3, 4, 5, B, D, N, Q, R****investigation work plan on desktop. sample notation does not match between site map and text. waiting for revised map.**DEC requires: 1) exposure assessment, 2) delineation/remeidation of soil/groundwater contamination

Remarks: Above ground tank leakJones Lang LaSalle also owns the buidling.

Material:

Site ID:	328931
Operable Unit ID:	883886
Operable Unit:	01
Material ID:	568360
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	8605094
Facility Type:	ER
DER Facility ID:	264724
Site ID:	328932
DEC Region:	2
Spill Date:	11/7/1986
Spill Number/Closed Date:	8605094 / 11/10/1986
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	11/10/1986
CID:	Not reported
Water Affected:	NONE
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	11/10/1986
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/8/1986
Spill Record Last Update:	3/17/2003
Spiller Name:	Not reported
Spiller Company:	WILLIAMSBURGH SAVINGS
Spiller Address:	SAME
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported

HSBC BANK (Continued) **S105997119**

Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was " "10/10/95: This is additional information about material spilled from the translation of the old spill file: ETHYLENE CHLORIDE.
Remarks: CHEMICAL SEEPING FROM AIR CONDITIONING SYSTEM

Material:

Tank Test:

A10 SSW < 1/8 0.027 mi. 141 ft. **HSBC BANK USA** **RCRA-CESQG** **1007112547**
1 HANSON PLACE - 2ND FLOOR **NY MANIFEST** **NYR000118232**
BROOKLYN, NY 11243

Site 10 of 18 in cluster A

Relative: Higher

Actual: 46 ft.

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: HSBC BANK USA
Facility address: 1 HANSON PLACE - 2ND FLOOR
BROOKLYN, NY 11243
EPA ID: NYR000118232
Mailing address: HANSON PLACE - 2ND FLOOR
BROOKLYN, NY 11243
Contact: WILLIAM HARRIS
Contact address: HANSON PLACE - 2ND FLOOR
BROOKLYN, NY 11243
Contact country: US
Contact telephone: (718) 488-4447
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: HSBC BANK USA
Owner/operator address: HANSON PLACE
BROOKLYN, NY 11243
Owner/operator country: US
Owner/operator telephone: (718) 488-4447
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2000

HSBC BANK USA (Continued) **1007112547**

Owner/Op end date: Not reported

Owner/operator name: HSBC BANK USA
Owner/operator address: HANSON PLACE
BROOKLYN, NY 11243
Owner/operator country: US
Owner/operator telephone: (718) 488-4447
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2000
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: HSBC BANK USA
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/16/2003
Site name: HSBC BANK USA
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000118232
Country: USA
Location Address 1: 1 HANSON PL 2ND FLR RM 201
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11243
Location Zip Code 4: Not reported

Mailing Info:
Name: HSBC BANK NA
Contact: JOHN MINTON
Address: 1 HANSON PL
Address 2: 2ND FLR RM 201
City/State/Zip: BROOKLYN, NY 11243
Country: USA

HSBC BANK USA (Continued) **1007112547**

Phone: 718-488-4380

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	07/24/2008
Trans1 Recv Date:	07/24/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/05/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	100.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	003110007JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Trans2 State ID:	NJD054126164
Generator Ship Date:	02/22/2007
Trans1 Recv Date:	02/22/2007
Trans2 Recv Date:	02/23/2007
TSD Site Recv Date:	03/12/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220
Units:	P - Pounds

HSBC BANK USA (Continued) **1007112547**

Number of Containers:	4
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	000081616JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NY1000134957
Trans2 State ID:	NJD054126164
Generator Ship Date:	02/22/2007
Trans1 Recv Date:	02/22/2007
Trans2 Recv Date:	02/23/2007
TSD Site Recv Date:	03/12/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	5
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	000081617JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported

HSBC BANK USA (Continued) **1007112547**

Trans1 State ID:	NYR000134957
Trans2 State ID:	NJD054126164
Generator Ship Date:	02/22/2007
Trans1 Recv Date:	02/22/2007
Trans2 Recv Date:	02/23/2007
TSD Site Recv Date:	03/12/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	200
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	000081616JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Trans2 State ID:	NJD054126164
Generator Ship Date:	02/22/2007
Trans1 Recv Date:	02/22/2007
Trans2 Recv Date:	02/23/2007
TSD Site Recv Date:	03/12/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	220
Units:	P - Pounds
Number of Containers:	5
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	000081616JJK

HSBC BANK USA (Continued) **1007112547**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000134957
Trans2 State ID:	NJD054126164
Generator Ship Date:	02/22/2007
Trans1 Recv Date:	02/22/2007
Trans2 Recv Date:	02/23/2007
TSD Site Recv Date:	03/12/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	90
Units:	P - Pounds
Number of Containers:	2
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	000081616JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYC6962534
Manifest Status:	Not reported
Trans1 State ID:	NY55817JL
Trans2 State ID:	T856MWNJ
Generator Ship Date:	11/19/2003
Trans1 Recv Date:	11/19/2003
Trans2 Recv Date:	11/21/2003
TSD Site Recv Date:	11/24/2003

HSBC BANK USA (Continued) **1007112547**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	NJD071629976
TSDF ID:	KYD053348108
Waste Code:	F003 - UNKNOWN
Quantity:	00500
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2003

Document ID:	NYC6961860
Manifest Status:	Not reported
Trans1 State ID:	UW55817JC
Trans2 State ID:	099T510BW
Generator Ship Date:	10/30/2003
Trans1 Recv Date:	10/30/2003
Trans2 Recv Date:	11/04/2003
TSD Site Recv Date:	11/05/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	NJD071629976
TSDF ID:	KYD053348108
Waste Code:	D006 - CADMIUM 1.0 MG/L TCLP
Quantity:	01250
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00460
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2003

Document ID:	NYC6961858
Manifest Status:	Not reported
Trans1 State ID:	NY5587JC
Trans2 State ID:	Not reported
Generator Ship Date:	10/30/2003
Trans1 Recv Date:	10/30/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/14/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

HSBC BANK USA (Continued) **1007112547**

Generator EPA ID:	NYR000118232
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	PAD987367216
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00180
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	01.00
Year:	2003

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD054126164
Trans2 State ID:	Not reported
Generator Ship Date:	04/28/2010
Trans1 Recv Date:	04/28/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/07/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000118232
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	3375.0
Units:	P - Pounds
Number of Containers:	9.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	006325868JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

A11 West < 1/8 0.028 mi. 148 ft. | **BROOKLYN ACADEMY OF MUSIC - SOUTH**
113 FLATBUSH AVENUE
BROOKLYN, NY 11217 | **NY UST** | **U004225809**
N/A

Site 11 of 18 in cluster A

Relative: Lower

Actual: 42 ft.

UST:

Id/Status:	2-612310 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/10/2018
UTM X:	Not reported
UTM Y:	Not reported
Site Type:	Other

Affiliation Records:

Site Id:	501058
Affiliation Type:	Facility Owner
Company Name:	20 LAFAYETTE LLC
Contact Type:	PROJECT MANAGER
Contact Name:	HALE EVERETS
Address1:	45 MAIN STREET, SUITE 602
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 222-2500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	10/21/2014

Site Id:	501058
Affiliation Type:	Mail Contact
Company Name:	20 LAFAYETTE LLC
Contact Type:	Not reported
Contact Name:	HALE EVERETS
Address1:	45 MAIN STREET
Address2:	SUITE 602
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 222-2500
EMail:	HEVERETS@TWOTREES-DUMBO.COM
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	11/20/2014

Site Id:	501058
Affiliation Type:	On-Site Operator
Company Name:	BROOKLYN ACADEMY OF MUSIC - SOUTH
Contact Type:	Not reported
Contact Name:	HALE EVERETS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

BROOKLYN ACADEMY OF MUSIC - SOUTH (Continued) **U004225809**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 222-2500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	10/21/2014

Site Id:	501058
Affiliation Type:	Emergency Contact
Company Name:	20 LAFAYETTE LLC
Contact Type:	Not reported
Contact Name:	HALE EVERETS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 222-2500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	10/21/2014

Tank Info:

Tank Number:	001
Tank ID:	253353
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	Not reported
Date Tank Closed:	03/13/2014
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	LSZINOMA
Last Modified:	11/20/2014

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

BROOKLYN ACADEMY OF MUSIC - SOUTH (Continued) **U004225809**

Tank Number:	002
Tank ID:	253354
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	275
Install Date:	Not reported
Date Tank Closed:	03/21/2014
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	LSZINOMA
Last Modified:	11/20/2014

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Number:	003
Tank ID:	253355
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	Not reported
Date Tank Closed:	06/10/2014
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	LSZINOMA
Last Modified:	11/20/2014

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
L00 - Piping Leak Detection - None

BROOKLYN ACADEMY OF MUSIC - SOUTH (Continued) **U004225809**

B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

A12
West
< 1/8
0.028 mi.
148 ft.

LOT 3,TAXBLOCK 2110
113 FLATBUSH AVENUE
BROOKLYN, NY

NY E DESIGNATION **S108075679**
N/A

Site 12 of 18 in cluster A

Relative:
Lower

Actual:
42 ft.

E DESIGNATION:

Tax Lot(s):	3
Tax Block:	2110
Borough Code:	Not reported
E-No:	E-305
Effective Date:	6/17/2013
Satisfaction Date:	Not reported
Ceqr Number:	03DME016K
Ulurp Number:	130116ZMK, N130117ZRK, 130118ZSK
Zoning Map No:	12d 16c
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

B13
SSW
< 1/8
0.029 mi.
151 ft.

ONE HANSON PLACE
ONE HANSON PLACE
BROOKLYN, NY 11217

NY AST **U004047828**
N/A

Site 1 of 8 in cluster B

Relative:
Higher

Actual:
46 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-607998
Program Type:	PBS
UTM X:	586375.61017999996
UTM Y:	4504310.7714200001
Expiration Date:	01/25/2011
Site Type:	Other

Affiliation Records:

Site Id:	29850
Affiliation Type:	Mail Contact
Company Name:	CJUF-II HANSON
Contact Type:	Not reported
Contact Name:	MR. ALEXANDER KRUKIS
Address1:	(C/O THE DERMOT COMPANY)
Address2:	320 WEST 57TH STREET
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001

ONE HANSON PLACE (Continued) **U004047828**

Phone:	(212) 262-1220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	1/25/2006

Site Id:	29850
Affiliation Type:	On-Site Operator
Company Name:	ONE HANSON PLACE
Contact Type:	Not reported
Contact Name:	YURY VINOKUR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 783-6609
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	1/25/2006

Site Id:	29850
Affiliation Type:	Emergency Contact
Company Name:	CJUF-II HANSON (C/O THE DERMOT COMPANY)
Contact Type:	Not reported
Contact Name:	YURY VINOKUR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 783-6609
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	1/25/2006

Site Id:	29850
Affiliation Type:	Facility Owner
Company Name:	CJUF-II HANSON (C/O THE DERMOT COMPANY)
Contact Type:	PRINCIPAL
Contact Name:	ANDREW MACAUTHUR
Address1:	320 WEST 57TH STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001
Phone:	(212) 262-1220
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	1/25/2006

ONE HANSON PLACE (Continued) **U004047828**

Tank Info:

Tank Number:	001
Tank Id:	64116
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
F04 - Pipe External Protection - Fiberglass
A00 - Tank Internal Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
L09 - Piping Leak Detection - Exempt Suction Piping
C03 - Pipe Location - Aboveground/Underground Combination
D06 - Pipe Type - Fiberglass Reinforced Plastic (FRP)
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
I00 - Overfill - None

Tank Location:	3
Tank Type:	Steel Tank in Concrete
Tank Status:	Closed - In Place
Pipe Model:	C
Install Date:	Not reported
Capacity Gallons:	7000
Tightness Test Method:	21
Date Test:	10/31/2002
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/15/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	64117
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported

ONE HANSON PLACE (Continued) **U004047828**

Install Date:	Not reported
Capacity Gallons:	7500
Tightness Test Method:	21
Date Test:	11/07/2005
Next Test Date:	Not reported
Date Tank Closed:	01/01/2006
Register:	True
Modified By:	KXTANG
Last Modified:	01/25/2006
Material Name:	#2 Fuel Oil (On-Site Consumption)

B14 **F.C. HANSON OFFICE ASSOCIATES** **NY AST** **A100293956**
SSW **2 HANSON PLACE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.030 mi.
160 ft. **Site 2 of 8 in cluster B**

Relative:
Higher

Actual:
46 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-609830
Program Type:	PBS
UTM X:	586376.93524000002
UTM Y:	4504298.5745099997
Expiration Date:	01/27/2020
Site Type:	Other Wholesale/Retail Sales

Affiliation Records:

Site Id:	336765
Affiliation Type:	Facility Owner
Company Name:	FCRC
Contact Type:	BUILDING MANAGER
Contact Name:	ANDY NEGRETTI
Address1:	1 METROTECH CTR, 23RD FLOOR
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/4/2015

Site Id:	336765
Affiliation Type:	Mail Contact
Company Name:	F.C. HANSON OFFICE ASSOCIATES
Contact Type:	Not reported
Contact Name:	ANDREW NEGRETTI
Address1:	2 HANSON PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 834-3430

F.C. HANSON OFFICE ASSOCIATES (Continued) **A100293956**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/4/2015

Site Id:	336765
Affiliation Type:	On-Site Operator
Company Name:	F.C. HANSON OFFICE ASSOCIATES
Contact Type:	Not reported
Contact Name:	ANDREW NEGRETTI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 834-3430
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/4/2015

Site Id:	336765
Affiliation Type:	Emergency Contact
Company Name:	FCRC
Contact Type:	Not reported
Contact Name:	PETER ORLOFF
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 834-3430
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/4/2015

Tank Info:

Tank Number:	001
Tank Id:	181623
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E12 - Piping Secondary Containment - Double-Wall

F.C. HANSON OFFICE ASSOCIATES (Continued) **A100293956**

L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C01 - Pipe Location - Aboveground
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/01/2004
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	02/04/2015
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	181624
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
E12 - Piping Secondary Containment - Double-Wall
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
C01 - Pipe Location - Aboveground
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/01/2004
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NTFREEMA
Last Modified:	02/04/2015
Material Name:	#2 Fuel Oil (On-Site Consumption)

B15 SSW < 1/8 0.030 mi. 160 ft. | **ATLANTIC TERMINAL**
2 HANSON PLACE
BROOKLYN, NY | **NY Spills** | **S107408245**
N/A

Site 3 of 8 in cluster B

Relative: Higher

Actual: 46 ft.

SPILLS:

Facility ID:	0506031
Facility Type:	ER
DER Facility ID:	298430
Site ID:	351161
DEC Region:	2
Spill Date:	8/16/2005
Spill Number/Closed Date:	0506031 / 8/17/2005
Spill Cause:	Unknown
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	8/16/2005
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/16/2005
Spill Record Last Update:	8/18/2005
Spiller Name:	AL
Spiller Company:	ATLANTIC TERMINAL
Spiller Address:	2 HANSON PLACE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	AL
Contact Phone:	(718) 383-2100
DEC Memo:	Glycol was spilled on the LIRR tracks. All has been cleaned up.8/18/05 - Raphael Ketani. I spoke to Lou Wunderlach of the L.I.R.R. environmental engineering group on 8/18. He said that they used Speedi-Dri to clean up the propylene glycol that had spilled onto the Flatbush platform. Twenty gallons was recovered and 15 to 20 gals. soaked into the track bed. The leak was due to damage to a fan coil pipe in the ceiling which is connected to a chiller unit. The pipe was bent possibly as a result of damage by a ceiling repair crew. Not reported
Remarks:	A PIPE WAS BROKEN THAT TELLS THE TEMP. OF GLYCOL TEMP: ABOUT 40 LBS: IS BEING REPAIRED: UNSURE HOW IT GOT BROKEN OTHER CONTRACTORS WERE ON SITE; SOME WENT ON TRACKS

Material:

Tank Test:

A16 SW < 1/8 0.032 mi. 169 ft. | **112 FLATBUSH AV/SHELL**
112 FLATBUSH AVENUE
BROOKLYN, NY | **NY Spills** | **S102142145**
N/A

Site 13 of 18 in cluster A

Relative: Lower

Actual: 44 ft.

SPILLS:

Facility ID:	8910580
Facility Type:	ER
DER Facility ID:	186467
Site ID:	225908
DEC Region:	2
Spill Date:	1/22/1990
Spill Number/Closed Date:	8910580 / 7/9/2002
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	2/6/1990
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/7/1990
Spill Record Last Update:	7/11/2002
Spiller Name:	Not reported
Spiller Company:	SHELL OIL COMPANY
Spiller Address:	ONE JERICHO PLAZA
Spiller City,St,Zip:	JERICHO, NY 11753-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"INITIAL SPILL REPORT HANDLED BY SIGONA. RE-ASSIGNED TO MULQUEEN.GASOLINE DISCOVERED IN WELLS INSTALLED BY GTI7/9/2002 - NY City condemed and took over the site several years ago to widen Flatbush Ave. Area of the tank field was apparently cleaned out by the road contractor (no info in DEC files)and paved over.Spill Closed
Remarks:	DISCOVERED DURING BORING, DEC NOTIFIED.

Material:

Site ID:	225908
Operable Unit ID:	937472
Operable Unit:	01
Material ID:	440151
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No

112 FLATBUSH AV/SHELL (Continued) **S102142145**

Resource Affected: Not reported
Oxygenate: False

Tank Test:

A17
WSW
< 1/8
0.032 mi.
171 ft.

MANHOLE #26623
FLATBUSH AV & STATE ST
BROOKLYN, NY

NY Spills **S104654231**
N/A

Site 14 of 18 in cluster A

Relative:
Lower

Actual:
43 ft.

SPILLS:

Facility ID:	0003986
Facility Type:	ER
DER Facility ID:	131716
Site ID:	155497
DEC Region:	2
Spill Date:	7/2/2000
Spill Number/Closed Date:	0003986 / 10/16/2001
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	7/2/2000
CID:	255
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/2/2000
Spill Record Last Update:	10/16/2001
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	MARK SCHLAGEL
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con Ed e2mis Notes:7/2/00 1qt unknown oil on 50gal water in manhole. Sample returned <1ppm PCB. 7/22/00 Cleanup completed by double washing with slix. Liquids removed by tanker, solids by vactor. No leaking company equipment. No sump.
Remarks:	1 QUART - UNKNOWN OIL - CON ED #132139

Material:

Site ID:	155497
Operable Unit ID:	826376
Operable Unit:	01
Material ID:	548738

MANHOLE #26623 (Continued) **S104654231**

Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A18
WSW
< 1/8
0.032 mi.
171 ft.

Relative:
Lower

Actual:
43 ft.

MANHOLE #26622 **NY Spills** **S104654232**
FLATBUSH AV & STATE ST **N/A**
BROOKLYN, NY

Site 15 of 18 in cluster A

SPILLS:

Facility ID:	0003987
Facility Type:	ER
DER Facility ID:	131716
Site ID:	155498
DEC Region:	2
Spill Date:	7/2/2000
Spill Number/Closed Date:	0003987 / 10/16/2001
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	7/2/2000
CID:	255
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/2/2000
Spill Record Last Update:	10/16/2001
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	MARK SCHLAGEL
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con Ed e2mis Notes:7/2/00 1pint unknown oil on 1gal water in manhole. Sample taken returned <1ppm PCB. 7/23/00 CLeanup completed by double washing with slix. Liquids removed by tanker,

MANHOLE #26622 (Continued) **S104654232**

solids by vactor. No leaking equipment. No sump.
Remarks: 1 PINT UNKNOWN OIL - CON ED #132140

Material:
Site ID: 155498
Operable Unit ID: 826378
Operable Unit: 01
Material ID: 548739
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

B19
SSW
< 1/8
0.034 mi.
178 ft.

FLAT BUSH TERMINAL **NY Spills** **S105057414**
FLAT BUSH AV/HANSEN PL **N/A**
BROOKLYN, NY

Site 4 of 8 in cluster B

Relative:
Higher

Actual:
46 ft.

SPILLS:
Facility ID: 0101794
Facility Type: ER
DER Facility ID: 77789
Site ID: 84595
DEC Region: 2
Spill Date: 5/16/2001
Spill Number/Closed Date: 0101794 / 7/27/2001
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: MXTIPPLE
Referred To: Not reported
Reported to Dept: 5/16/2001
CID: 382
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 5/16/2001
Spill Record Last Update: 7/27/2001
Spiller Name: WILLIAM KEENAN
Spiller Company: SCHIAVONE CONSTRUCTION
Spiller Address: 150 MEADOWLANDS PKWY
Spiller City,St,Zip: SECAUCUS, NJ

FLAT BUSH TERMINAL (Continued) **S105057414**

Spiller Company:	001
Contact Name:	WILLIAM KEENAN
Contact Phone:	(718) 558-3081
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"MTA SUBMITTED CLEANUP DATA
Remarks:	secondary containment failed causing leak into surrounding ground. appears to be historic. clean up be complete by schivone construction tomorrow

Material:

Site ID:	84595
Operable Unit ID:	838669
Operable Unit:	01
Material ID:	537497
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

A20 **LOT 23,TAXBLOCK 174** **NY E DESIGNATION** **S108075658**
WSW **100 FLATBUSH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.035 mi.
186 ft. **Site 16 of 18 in cluster A**

Relative:
Lower

Actual:
42 ft.

E DESIGNATION:

Tax Lot(s):	23
Tax Block:	174
Borough Code:	Not reported
E-No:	E-124
Effective Date:	6/28/2004
Satisfaction Date:	Not reported
Ceqr Number:	03DME016K
Ulurp Number:	040171 ZMK
Zoning Map No:	12d,16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

A21 NNE < 1/8 0.036 mi. 191 ft. | **BROOKLYN MUSIC SCHOL**
126 SAINT FELIX STREET
BROOKLYN, NY 11217

NY UST **U001834019**
NY HIST UST **N/A**

Site 17 of 18 in cluster A

Relative: Lower

Actual: 43 ft.

UST:

Id/Status:	2-246581 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/07/2007
UTM X:	586451.99494999996
UTM Y:	4504396.6929599997
Site Type:	School

Affiliation Records:

Site Id:	9651
Affiliation Type:	Facility Owner
Company Name:	NANCY P. BARRY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	126 ST FELIX ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 638-5660
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	9651
Affiliation Type:	Mail Contact
Company Name:	BROOKLYN MUSIC SCHOL
Contact Type:	Not reported
Contact Name:	JESSICA FILLMORE
Address1:	126 SAINT FELIX STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 638-5660
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	9651
Affiliation Type:	On-Site Operator
Company Name:	BROOKLYN MUSIC SCHOL
Contact Type:	Not reported
Contact Name:	NANCY P. BARRY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

BROOKLYN MUSIC SCHOL (Continued) **U001834019**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-5660
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	9651
Affiliation Type:	Emergency Contact
Company Name:	NANCY P. BARRY
Contact Type:	Not reported
Contact Name:	NANCY P. BARRY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-5660
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	10587
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2000
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	03
Date Test:	10/01/1995
Next Test Date:	10/01/2000
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None

BROOKLYN MUSIC SCHOL (Continued) **U001834019**

H00 - Tank Leak Detection - None

HIST UST:

PBS Number:	2-246581
SPDES Number:	Not reported
Emergency Contact:	JIM PAULSON
Emergency Telephone:	(718) 638-5660
Operator:	JIM PAULSON
Operator Telephone:	(718) 638-5660
Owner Name:	BROOKLYN MUSIC SCHOL
Owner Address:	122 ST FELIX ST
Owner City,St,Zip:	BROOKLYN, NY 11217
Owner Telephone:	(718) 638-5660
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	BROOKLYN MUSIC SCHOL
Mailing Address:	122 ST FELIX ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11217
Mailing Contact:	Not reported
Mailing Telephone:	(718) 638-5660
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	122 ST FELIX ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	SCHOOL
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/22/1997
Expiration Date:	07/07/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel

BROOKLYN MUSIC SCHOL (Continued) **U001834019**

Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	10/01/1995
Next Test Date:	10/01/2000
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

C22 **MANHOLE 2770** **NY Spills** **S104283091**
SE **FORT GREEN PL & HANSON PL** **N/A**
< 1/8 **BROOKLYN, NY**
0.037 mi.
195 ft. **Site 1 of 6 in cluster C**

Relative:
Higher

Actual:
50 ft.

SPILLS:

Facility ID:	9908623
Facility Type:	ER
DER Facility ID:	208820
Site ID:	254927
DEC Region:	2
Spill Date:	10/15/1999
Spill Number/Closed Date:	9908623 / 2/21/2002
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	10/15/1999
CID:	389
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/15/1999
Spill Record Last Update:	2/22/2002
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	Not reported

MANHOLE 2770 (Continued) **S104283091**

Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"
Remarks: CALLER REPORTING A SPILL OF 8 OZ ON 10 GAL OF WATER IN A CONCRETE MANHOLE CONED#128457 CLEAN UP PENDING LAB RESULTS NO CALLBACK NECESSARY

Material:
Site ID: 254927
Operable Unit ID: 1087303
Operable Unit: 01
Material ID: 297730
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 8
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

A23 **LOT 18,TAXBLOCK 174** **NY E DESIGNATION** **S108075642**
West **96 FLATBUSH AVENUE** **N/A**
< 1/8 **BROOKLYN, NY**
0.038 mi.
199 ft. **Site 18 of 18 in cluster A**

Relative:
Lower

Actual:
42 ft.

E DESIGNATION:
Tax Lot(s): 18
Tax Block: 174
Borough Code: Not reported
E-No: E-124
Effective Date: 6/28/2004
Satisfaction Date: Not reported
Ceqr Number: 03DME016K
Ulurp Number: 040171 ZMK
Zoning Map No: 12d,16c

Description: Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date: Not reported

Description: Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date: Not reported

C24
ESE
< 1/8
0.040 mi.
212 ft.

35 HANSON PL
BROOKLYN, NY 11217

Site 2 of 6 in cluster C

EDR US Hist Cleaners **1015047506**
N/A

Relative:
Higher

Actual:
51 ft.

EDR Historical Cleaners:

Name:	HANSON PLACE CLEANERS
Year:	2010
Address:	35 HANSON PL
Name:	HANSON PLACE CLEANERS
Year:	2011
Address:	35 HANSON PL
Name:	HANSON PLACE CLEANERS
Year:	2012
Address:	35 HANSON PL

B25
SSW
< 1/8
0.044 mi.
234 ft.

MANHOLE 2772
118 FLATBUSH AVE
BROOKLYN, NY

Site 5 of 8 in cluster B

NY Spills **S104508872**
N/A

Relative:
Lower

Actual:
44 ft.

SPILLS:

Facility ID:	9911669
Facility Type:	ER
DER Facility ID:	113295
Site ID:	131501
DEC Region:	2
Spill Date:	1/7/2000
Spill Number/Closed Date:	9911669 / 3/4/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	1/7/2000
CID:	216
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/7/2000
Spill Record Last Update:	3/4/2002
Spiller Name:	BRIAN JOYCE
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	001
Contact Name:	BRIAN JOYCE
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was

MANHOLE 2772 (Continued) **S104508872**

"O'CONNELL"

Remarks: OIL SPILLED ON MANHOLE FLOOR DO TO A LEAKING BAG ON THE END OF A CABLE THEY WILL CLEAN UP AREA AFTER TEST RESULTS COME BACK CON EDISON REF 129519

Material:

Site ID:	131501
Operable Unit ID:	1090369
Operable Unit:	01
Material ID:	297121
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

B26
SW
< 1/8
0.045 mi.
235 ft.

BAGS OF DRY AMMONIA AT COMMERCIAL PROPERTY **NY Spills** **S112226360**
116 FLATBUSH AVENUE **N/A**
BROOKLYN, NY

Site 6 of 8 in cluster B

Relative:
Lower

Actual:
43 ft.

SPILLS:

Facility ID:	1205540
Facility Type:	ER
DER Facility ID:	422782
Site ID:	468497
DEC Region:	2
Spill Date:	9/2/2012
Spill Number/Closed Date:	1205540 / 9/4/2012
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	9/2/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/2/2012
Spill Record Last Update:	9/4/2012
Spiller Name:	MOSES
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN

BAGS OF DRY AMMONIA AT COMMERCIAL PROPERTY (Continued) **S112226360**

Spiller City,St,Zip: UNKNOWN, NY
Spiller Company: 999
Contact Name: MOSES
Contact Phone: (917) 612-5299
DEC Memo: 9/4/12-Vought-Primary off-hours responder. FDNY Kearney (Ph:(914) 269-8532) Hazmat 1 noted that bags of dry ammonia discoverd at a commercial facility. Vought called and left message and received return call from Kearny who noted that he also contacted DEP Hazmat with respect to spill. Vought called DEP Hazmat (Jon Wilson Cell:646-879-7329) and he will return call to Vought with more information. Vought received callback from and spoke to DEP Hazmat (Victor) who noted that the site was a two family home with retail space and FDNY received reports of odors of ammonia from neighbors. FDNY arrived onsite and found source of vapors was pit in basement. Victor also at site and noticed no signs of industrial operations or hazardous waste storage. Victor issued DEP Commissioners Order to remove impact dirt in pit with ammonia and find source of odors. Vought informed RSE of same. Spill closed by Vought as non-petroleum spill and no impact to soil and/or groundwater. See also duplicate spill 1205540.
Remarks: CALLER HUNG UP ON DISPATCH WHILE FILLING SPILL REPORT OUT. CALLER ASKED IF WE WERE GONNA COME OUT IMMEDITATELY FOR CONTAMINTATED SOIL AND I RESPONDED I HAVE NO IDEA THATS NOT UP TO ME. CALLER STATED THAT FDNY WAS THERE WITH OEM SO THATS WHY I'M SENDING TO REGION 2!

Material:
Site ID: 468497
Operable Unit ID: 1218418
Operable Unit: 01
Material ID: 2216796
Material Code: 0025A
Material Name: AMMONIA
Case No.: 07664417
Material FA: Hazardous Material
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

B27 **CON EDISON** **NY MANIFEST** **S113814112**
SSW **120 FLATBUSH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.047 mi.
250 ft. **Site 7 of 8 in cluster B**

Relative:
Lower

Actual:
44 ft.

NY MANIFEST:
EPA ID: NYP004304445
Country: USA
Location Address 1: 120 FLATBUSH AVE
Location Address 2: MH #2782
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

CON EDISON (Continued) **S113814112**

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/17/2013
Trans1 Recv Date:	07/17/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004304445
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	300
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002086312GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

B28 **CON EDISON SERVICE BOX: 9301** **RCRA NonGen / NLR** **1016961742**
SSW **125 FLATBUSH AVE** **NY MANIFEST** **NYP004346243**
< 1/8 **BROOKLYN, NY 11217**
0.050 mi.
266 ft. **Site 8 of 8 in cluster B**

Relative:
Higher

Actual:
45 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/15/2013
Facility name:	CON EDISON SERVICE BOX: 9301
Facility address:	125 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYP004346243

CON EDISON SERVICE BOX: 9301 (Continued) **1016961742**

Mailing address:	IRVING PL, RM 828
	NEW YORK, NY 10003
Contact:	FREDERICK GRAZIANO
Contact address:	Not reported
	Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4589
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/15/2013
Site name:	CON EDISON SERVICE BOX: 9301
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004346243
Country:	USA
Location Address 1:	125 FLATBUSH AV
Location Address 2:	SB 9301
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PL 15TH FL
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported

CON EDISON SERVICE BOX: 9301 (Continued) **1016961742**

Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	08/15/2013
Trans1 Recv Date:	08/15/2013
Trans2 Recv Date:	08/21/2013
TSD Site Recv Date:	08/21/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004346243
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002220395GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

C29 **211078; FORT GREENE PL AND HANSON PL** **NY Spills** **S110306291**
ESE **FORT GREENE PL AND HANSON PL** **N/A**
< 1/8 **NEW YORK, NY**
0.053 mi.
278 ft. **Site 3 of 6 in cluster C**

Relative:
Higher

Actual:
53 ft.

SPILLS:

Facility ID:	0814184
Facility Type:	ER
DER Facility ID:	386584
Site ID:	432244
DEC Region:	2
Spill Date:	4/28/2008
Spill Number/Closed Date:	0814184 / 8/31/2008
Spill Cause:	Unknown
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	DMPOKRZY
Referred To:	Not reported
Reported to Dept:	12/31/2008
CID:	Not reported
Water Affected:	Not reported

211078; FORT GREENE PL AND HANSON PL (Continued) **S110306291**

Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/16/2010
Spill Record Last Update:	4/16/2010
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	5030 BROADWAY
Spiller City,St,Zip:	New York, NY
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	Not reported
Remarks:	Not reported

Material:

Site ID:	432244
Operable Unit ID:	1183305
Operable Unit:	01
Material ID:	2177517
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

C30
ESE
< 1/8
0.054 mi.
284 ft.

MANHOLE 70589 **NY Spills** **S106735860**
FORT GREEN PL/HANSON PL **N/A**
BROOKLYN, NY

Site 4 of 6 in cluster C

Relative:
Higher

Actual:
53 ft.

SPILLS:

Facility ID:	0409761
Facility Type:	ER
DER Facility ID:	269787
Site ID:	334566
DEC Region:	2
Spill Date:	12/1/2004
Spill Number/Closed Date:	0409761 / 5/5/2005
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported

MANHOLE 70589 (Continued) **S106735860**

Reported to Dept:	12/2/2004
CID:	73
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/2/2004
Spill Record Last Update:	5/5/2005
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	12/1/04 1312hrs - Marlon Young found 1 gallon unknown oil on 1 gallon water in MH70589. No sewers or waterways affected. Sample taken. Env. stop tag # 42228 placed. Clean up pending test results. Lab Sequence Number: 04-09971-001 - Total PCBs < 1 ppm12/3/04 1310HRS LIPORI ENVIR OPPS REPORTS CLEANUP COMPLETED. UNDERGROUND ON LOCATION TO RERACK CABLE AND RECAP CABLE ENDS. TANKER REMOVED ALL LIQUIDS. FOUND SUMP CEMENTED. REMOVED ENVIR TAG# 42228.
Remarks:	NO TO ALL 5 QUESTIONS. CON ED REF #156422. CLEAN UP IN PROGRESS. COMING OFF THE 24-HR PROGRAM DUE TO TIME CONSTRAINTS.

Material:

Tank Test:

D31
WNW
< 1/8
0.054 mi.
287 ft.

Relative:
Lower

Actual:
40 ft.

LOT 13,TAXBLOCK 174
80 FLATBUSH AVENUE
BROOKLYN, NY

Site 1 of 10 in cluster D

NY E DESIGNATION **S108469651**
N/A

E DESIGNATION:

Tax Lot(s):	13
Tax Block:	174
Borough Code:	Not reported
E-No:	E-124
Effective Date:	6/28/2004
Satisfaction Date:	Not reported
Ceqr Number:	03DME016K
Ulurp Number:	040171 ZMK
Zoning Map No:	12d,16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

E32 NE < 1/8 0.055 mi. 290 ft. | **SECOND DISTRICT DENTAL SOCIETY OF N.Y.**
111 FORT GREENE PLACE
BROOKLYN, NY 11217

NY UST **U003790886**
NY HIST UST **N/A**

Site 1 of 10 in cluster E

Relative: Higher

Actual: 47 ft.

UST:

Id/Status:	2-606189 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/05/2006
UTM X:	586510.95463000005
UTM Y:	4504435.7748800004
Site Type:	Other

Affiliation Records:

Site Id:	28053
Affiliation Type:	Facility Owner
Company Name:	SECOND DISTRICT DENTAL SOCIETY OF N.Y.
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	111 FORT GREENE PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217-1490
Country Code:	001
Phone:	(718) 522-3939
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28053
Affiliation Type:	Mail Contact
Company Name:	SECOND DISTRICT DENTAL SOCIETY
Contact Type:	Not reported
Contact Name:	BERNARD HACKETT
Address1:	111 FORT GREENE PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217-1490
Country Code:	001
Phone:	(718) 522-3939
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28053
Affiliation Type:	On-Site Operator
Company Name:	SECOND DISTRICT DENTAL SOCIETY OF N.Y.
Contact Type:	Not reported
Contact Name:	B. HACKETT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

SECOND DISTRICT DENTAL SOCIETY OF N.Y. (Continued) **U003790886**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-3939
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28053
Affiliation Type:	Emergency Contact
Company Name:	SECOND DISTRICT DENTAL SOCIETY OF N.Y.
Contact Type:	Not reported
Contact Name:	B. HACKETT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-3939
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	61084
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	11/01/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	21
Date Test:	06/25/2001
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

SECOND DISTRICT DENTAL SOCIETY OF N.Y. (Continued) **U003790886**

HIST UST:

PBS Number:	2-606189
SPDES Number:	Not reported
Emergency Contact:	B. HACKETT
Emergency Telephone:	(718) 522-3939
Operator:	B. HACKETT
Operator Telephone:	(718) 522-3939
Owner Name:	SECOND DISTRICT DENTAL SOCIETY OF N.Y.
Owner Address:	111 FORT GREENE PLACE
Owner City,St,Zip:	BROOKLYN, NY 11217-1490
Owner Telephone:	(718) 522-3939
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	SECOND DISTRICT DENTAL SOCIETY
Mailing Address:	111 FORT GREENE PLACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11217-1490
Mailing Contact:	BERNARD HACKETT
Mailing Telephone:	(718) 522-3939
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/17/2001
Expiration Date:	07/05/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground

SECOND DISTRICT DENTAL SOCIETY OF N.Y. (Continued) **U003790886**

Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	06/25/2001
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	11/01/2001
Test Method:	21
Deleted:	False
Updated:	True
Lat/long:	Not reported

E33 **CON EDISON** **NY MANIFEST** **S117313547**
NE **FO 102 FORT GREENE PL** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.058 mi.
304 ft. **Site 2 of 10 in cluster E**

Relative:
Higher

Actual:
47 ft.

NY MANIFEST:

EPA ID:	NYP004602991
Country:	USA
Location Address 1:	FO 102 FORT GREENE PL
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	07/21/2014
Trans1 Recv Date:	07/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004602991
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	50

CON EDISON (Continued) **S117313547**

Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	002615203GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

E34
NE
< 1/8
0.062 mi.
330 ft.

LOT 22,TAXBLOCK 2113
105 FT GREENE PLACE
BROOKLYN, NY

NY E DESIGNATION **S108984029**
N/A

Site 3 of 10 in cluster E

Relative:
Higher

Actual:
47 ft.

E DESIGNATION:

Tax Lot(s):	22
Tax Block:	2113
Borough Code:	Not reported
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

F35
NNW
< 1/8
0.065 mi.
342 ft.

CON ED-MH 1840
LAFAYETTE AVE & ASHLAND PL
BROOKLYN, NY 11205

RCRA NonGen / NLR **1007206361**
NY MANIFEST **NYP004008710**

Site 1 of 10 in cluster F

Relative:
Lower

Actual:
38 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/28/1998
Facility name:	CON ED-MH 1840
Facility address:	LAFAYETTE AVE & ASHLAND PL BROOKLYN, NY 112050000
EPA ID:	NYP004008710
Mailing address:	CONSOLIDATED EDISON INC 4 IRVING PL ROOM 300

CON ED-MH 1840 (Continued) **1007206361**

	NEW YORK, NY 100030000
Contact:	ANTHONY DRUMMINGS
Contact address:	CONSOLIDATED EDISON INC
	NEW YORK, NY 100030000
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/27/1998
Site name:	CON ED-MH 1840
Classification:	Not a generator, verified
Date form received by agency:	02/26/1998
Site name:	CON ED-MH 1840
Classification:	Large Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004008710
Country:	USA
Location Address 1:	MH 1840 - LAFAYETTE
Location Address 2:	Not reported
Location City:	QUEENS
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLIN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

CON ED-MH 1840 (Continued) **1007206361**

Manifest:

Document ID:	NYG0095661
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	36630Y
Trans2 State ID:	Not reported
Generator Ship Date:	06/21/1997
Trans1 Recv Date:	06/21/1997
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/23/1997
Part A Recv Date:	07/16/1997
Part B Recv Date:	07/22/1997
Generator EPA ID:	NYP004008710
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B003 - PETROLEUM OIL WITH 500 PPM OR > PCB
Quantity:	03109
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1997

Document ID:	NYG0095508
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	SM1860
Trans2 State ID:	Not reported
Generator Ship Date:	06/22/1997
Trans1 Recv Date:	06/22/1997
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/23/1997
Part A Recv Date:	07/16/1997
Part B Recv Date:	07/18/1997
Generator EPA ID:	NYP004008710
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00002
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1997

F36 **BROOKLYN ACADEMY OF MUSIC** **NY AST** **U003396380**
North **30 LAFAYETTE AVENUE** **NY HIST AST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.066 mi.
346 ft. **Site 2 of 10 in cluster F**

Relative:
Lower

Actual:
40 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-601958
Program Type:	PBS
UTM X:	586406.38650000002
UTM Y:	4504471.3901199996
Expiration Date:	09/06/2019
Site Type:	Other

Affiliation Records:

Site Id:	23920
Affiliation Type:	Facility Owner
Company Name:	BROOKLYN ACADEMY OF MUSIC
Contact Type:	DIRECTOR OF BLDG. OPERATIONS
Contact Name:	MICHAEL ZANCA
Address1:	30 LAFAYETTE AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-4162
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	12/11/2014

Site Id:	23920
Affiliation Type:	Mail Contact
Company Name:	BROOKLYN ACADEMY OF MUSIC
Contact Type:	Not reported
Contact Name:	MICHAEL ZANCA
Address1:	30 LAFAYETTE AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-4100
EMail:	MZANCA@BAM.ORG
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	12/11/2014

Site Id:	23920
Affiliation Type:	On-Site Operator
Company Name:	BROOKLYN ACADEMY OF MUSIC
Contact Type:	Not reported
Contact Name:	MICHAEL J. ZANCA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

BROOKLYN ACADEMY OF MUSIC (Continued) **U003396380**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 636-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	12/11/2014

Site Id:	23920
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPARTMENT OF CULTURAL AFFAIRS
Contact Type:	Not reported
Contact Name:	RICHARD V. TAYLOR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(800) 350-2190
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	5/9/2011

Tank Info:

Tank Number:	01
Tank Id:	48509
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
E02 - Piping Secondary Containment - Vault (with Access)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1964
Capacity Gallons:	15000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported

BROOKLYN ACADEMY OF MUSIC (Continued) **U003396380**

Register:	True
Modified By:	LSZINOMA
Last Modified:	12/11/2014
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-601958
SWIS Code:	6101
Operator:	JACK DOBSON
Facility Phone:	(718) 636-4100
Facility Addr2:	Not reported
Facility Type:	OTHER
Emergency:	JACK DOBSON
Emergency Tel:	(718) 636-4133
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK; DEPARTMENT OF CULTURAL AFFAIRS
Owner Address:	2 COLUMBUS CIRCLE
Owner City,St,Zip:	NEW YORK, NY 10019
Federal ID:	Not reported
Owner Tel:	(718) 841-4100
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	JACK DOBSON
Mailing Name:	BROOKLYLN ACADEMY OF MUSIC
Mailing Address:	C/0 JACK DOBSON
Mailing Address 2:	30 LAFAYETTE AVENUE
Mailing City,St,Zip:	BROOKLYN, NY 11217
Mailing Telephone:	(718) 636-4133
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	10/15/1999
Expiration:	09/06/2004
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	15000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	01
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	15000

BROOKLYN ACADEMY OF MUSIC (Continued) **U003396380**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	00
Dispenser Method:	Gravity
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

F37 **BROOKLYN ACADEMY OF MUSIC** **RCRA NonGen / NLR** **1007112693**
North **30 LAFAYETTE AVE** **NY MANIFEST** **NYR000120097**
< 1/8 **BROOKLYN, NY 11217**
0.066 mi.
346 ft. **Site 3 of 10 in cluster F**

Relative:
Lower

Actual:
40 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/20/2012
Facility name:	BROOKLYN ACADEMY OF MUSIC
Facility address:	30 LAFAYETTE AVE BROOKLYN, NY 11217
EPA ID:	NYR000120097
Mailing address:	LAFAYETTE AVE BROOKLYN, NY 11217
Contact:	OLRIC FRANCIS
Contact address:	LAFAYETTE AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	(718) 724-8048
Contact email:	OFRANCIS@BAM.ORG
EPA Region:	02
Land type:	Municipal
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYC BROOKLYN ACADEMY OF MUSIC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1907
Owner/Op end date:	Not reported

BROOKLYN ACADEMY OF MUSIC (Continued) **1007112693**

Owner/operator name: BAM/KEITH STIBBEFIELD CFO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/13/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 12/15/2010
Site name: BROOKLYN ACADEMY OF MUSIC
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 01/01/2007
Site name: BROOKLYN ACADEMY OF MUSIC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/01/2006
Site name: BROOKLYN ACADEMY OF MUSIC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 11/05/2003
Site name: BROOKLYN ACADEMY OF MUSIC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.11
Area of violation: Generators - General

BROOKLYN ACADEMY OF MUSIC (Continued) **1007112693**

Date violation determined:	05/03/2004
Date achieved compliance:	05/03/2004
Violation lead agency:	EPA
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	05/03/2004
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	05/03/2004
Evaluation lead agency:	EPA

NY MANIFEST:

EPA ID:	NYR000120097
Country:	USA
Location Address 1:	30 LAFAYETTE AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	BROOKLYN ACADEMY OF MUSIC
Contact:	N/S
Address:	30 LAFAYETTE AVE
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	516-523-5412

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NY0000148163
Trans2 State ID:	Not reported
Generator Ship Date:	01/20/2011
Trans1 Recv Date:	01/20/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/21/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000120097
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD082785429
Waste Code:	Not reported
Quantity:	370.0
Units:	P - Pounds
Number of Containers:	2.0

BROOKLYN ACADEMY OF MUSIC (Continued) **1007112693**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002169678JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NJA5083221
Manifest Status:	Not reported
Trans1 State ID:	08424
Trans2 State ID:	Not reported
Generator Ship Date:	11/20/2003
Trans1 Recv Date:	11/20/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/24/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000120097
Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00600
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2003

F38 **MANHOLE 1887** **NY Spills** **S107408655**
NNW **ASHLAND PL/LAFAYETTE AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.066 mi.
351 ft. **Site 4 of 10 in cluster F**

Relative:
Lower

Actual:
38 ft.

SPILLS:

Facility ID:	0506735
Facility Type:	ER
DER Facility ID:	299303
Site ID:	352005
DEC Region:	2
Spill Date:	8/31/2005
Spill Number/Closed Date:	0506735 / 1/11/2006
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

MANHOLE 1887 (Continued) **S107408655**

SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	8/31/2005
CID:	74
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/1/2005
Spill Record Last Update:	1/11/2006
Spiller Name:	ERT DESK'
Spiller Company:	MANHOLE 1887
Spiller Address:	ASHLAND PL/LAFAYETTE AV
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ERT DESK'
Contact Phone:	(212) 580-8383
DEC Memo:	160807. 8/31/2005 03:48 HRS. S. LEONE #00399, MECHANIC "B" WITH MAINTENANCE SERVICES, REPORTS ON LOCATION INSPECTING MANHOLE FOR RODDING OF DUCTS (ACCT # 39808) AND AT 03:10 HRS. FOUND APPROX. 1 GAL. OIL LEAKED FROM FEEDER CABLE ONTO APPROX. 10 GAL WATER IN MH-1887. LEAK IS LOCATED AT ARC-PROOFING TAPE, NOT AT JOINT. THERE APPEARS TO BE EITHER A SUMP OR DRAIN IN FLOOR OF MANHOLE (HE DIDN'T THINK IT WAS A SUMP, BUT WAS NOT SURE -- THIS WILL NEED TO BE INVESTIGATED AT TIME OF CLEANUP). WATER IS STANDING AND NOT MOVING OUT OF STRUCTURE. SPILL APPEARS TO BE CONTAINED. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. NO PRIVATE PROPERTY AFFECTED. NO FIRE OR SMOKE INVOLVED. ENV STOP TAG 31757 PLACED. LIQUID SAMPLE OIL & WATER TAKEN. CHAIN OF CUSTODY FORM # CC-17872 MARKED FOR PCB TEST AND "E" PRIORITYTURNAROUND. SAMPLE BEING DELIVERED TO CHEM LAB BY MAINTENANCE SERVICES. CLEANUP PENDING PCB RESULTS. -- W. WAINWRIGHT #17344 --Wednesday, August 31, 2005 9:53 AM. Lab Sequence Number: 05-09166-001 < 1.0 ppm UPDATE 31-AUG-2005 23:40 HRS. AS PER A CONVERSATION BET: O.G.S. H.BROWN & UG O.S. P.GALLO : THERE ARE 3 JOINTS IN STRUCTURE NOT CONNECTED TO RESERVOIR TANK & I JOINT WITH A CRACKED ARMOR.D-FAULT TAG# 02013 HAS BEEN PLACED. DUE TO THE D-FAULT CONDITION, INCIDENT 160807 WILL NOT BE MEETING THE 72HR CLOCK AND WILL BE RE-CLASSIFIED AS SPILL- DIELECTRIC FLUID. C.HOGAN 07511
Remarks:	on 10 gallons of water 160807.leaked from feeder cablecoming off 72 hr. program - unalbe to cleanup within 72 hours due to several defaults - several feeders have to be deengergized.

Material:

Site ID:	352005
Operable Unit ID:	1109520
Operable Unit:	01
Material ID:	2099530
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1

MANHOLE 1887 (Continued) **S107408655**

Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

F39
NNW
< 1/8
0.066 mi.
351 ft.

MTA NYCT - ASHLAND PLACE SUBSTATION **RCRA-SQG** **1016150316**
LAFAYETTE & ASHLAND PL **NY MANIFEST** **NYR000201053**
BROOKLYN, NY 11217

Site 5 of 10 in cluster F

Relative:
Lower

Actual:
38 ft.

RCRA-SQG:
Date form received by agency: 06/18/2013
Facility name: MTA NYCT - ASHLAND PLACE SUBSTATION
Facility address: LAFAYETTE & ASHLAND PL
BROOKLYN, NY 11217
EPA ID: NYR000201053
Mailing address: BROADWAY 5TH FL 503
NEW YORK, NY 10004
Contact: GERALD LEZEAU
Contact address: BROADWAY 5TH FL 503
NEW YORK, NY 10004
Contact country: US
Contact telephone: (646) 252-3535
Contact email: GERALD.LEZEAU@NYCT.COM
EPA Region: 02
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: MTA NYCT
Owner/operator address: BROADWAY 5TH FL 503
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: (646) 252-3535
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1968
Owner/Op end date: Not reported

Owner/operator name: MTA NYCT
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1968
Owner/Op end date: Not reported

MTA NYCT - ASHLAND PLACE SUBSTATION (Continued) **1016150316**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYR000201053
Country:	USA
Location Address 1:	LAFAYETTE & ASHLAND PL
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	MTA NYCT - ASHLAND PLACE SUBSTATION
Contact:	MTA NYCT - ASHLAND PLACE SUBSTATION
Address:	2 BROADWAY D2.53
City/State/Zip:	NEW YORK, NY 10004
Country:	USA
Phone:	462-523-5055

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/10/2013
Trans1 Recv Date:	12/10/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/10/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000201053
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported

MTA NYCT - ASHLAND PLACE SUBSTATION (Continued) **1016150316**

Quantity:	150
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	008922420JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/10/2013
Trans1 Recv Date:	12/10/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/10/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000201053
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	40
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	008922420JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

F40 NNW < 1/8 0.068 mi. 358 ft. | **COMMERCIAL PARKING LOT**
19 LAFAYETTE AVE
BROOKLYN, NY | **NY Spills** | **S117266949**
N/A

Site 6 of 10 in cluster F

Relative: Lower

Actual: 38 ft.

SPILLS:

Facility ID:	1401845
Facility Type:	ER
DER Facility ID:	450052
Site ID:	495145
DEC Region:	2
Spill Date:	5/20/2014
Spill Number/Closed Date:	1401845 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	5/20/2014
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	5/20/2014
Spill Record Last Update:	5/22/2014
Spiller Name:	GERALD NICHOLLS
Spiller Company:	COMMERCIAL PARKING LOT
Spiller Address:	19 LAFAYETTE AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	GERALD NICHOLLS
Contact Phone:	(212) 479-5559
DEC Memo:	DEC Piper spoke with Jerry Nichols with Langan. while perfroming geotechnical borings, cont soil encountered. data suggests spill is on site. sandborn maps show 10k tank. unregistered tank. property to be redeveloped. Excavate to 14 feet bgs. tank will be removed it is discovered. Unsure if tank on sanborne was AST or UST. HPD property.
Remarks:	Boring and data indicate impacted soil at site of what is believed to be where a UST may have been 30 years ago. Cleanup is pending.

Material:

Site ID:	495145
Operable Unit ID:	1244645
Operable Unit:	01
Material ID:	2245496
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported

COMMERCIAL PARKING LOT (Continued) **S117266949**

Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

C41
SSE
< 1/8
0.069 mi.
363 ft.

Relative:
Higher

Actual:
49 ft.

TARGET STORE NO.1849 **PA MANIFEST** **S112070284**
139 FLATBUSH AVE **N/A**
BROOKLYN, NY 11217

Site 5 of 6 in cluster C

Manifest Details:

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D006
Container Number:	2
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	15
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported

TARGET STORE NO.1849 (Continued) **S112070284**

Page Number:	1
Line Number:	2
Waste Number:	P108
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D005
Container Number:	2
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	15
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P075

TARGET STORE NO.1849 (Continued) **S112070284**

Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P075
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2

TARGET STORE NO.1849 (Continued) **S112070284**

Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P012
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported

TARGET STORE NO.1849 (Continued) **S112070284**

Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D001
Container Number:	2
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	15
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004984004FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	09/12/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	P012
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011

TARGET STORE NO.1849 (Continued) **S112070284**

Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D006
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004984004FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	09/12/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	P001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004984004FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130

TARGET STORE NO.1849 (Continued) **S112070284**

Generator Date:	09/12/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	P108
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	U002
Container Number:	2
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	15
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported

TARGET STORE NO.1849 (Continued) **S112070284**

Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P012
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004998622FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	12/08/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P001
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004984004FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	09/12/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592

TARGET STORE NO.1849 (Continued) **S112070284**

TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	P075
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D005
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported
Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE

TARGET STORE NO.1849 (Continued) **S112070284**

TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	U002
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	2
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Year:	2011
Manifest Number:	004993312FLE
Manifest Type:	TSD Copy
Generator EPA Id:	NYR000134130
Generator Date:	08/09/2011
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	PAD085690592
TSD Date:	Not reported
TSD Facility Name:	REPUBLIC ENVIRONMENTAL SYSTEMS OF PA INC
TSD Facility Address:	2869 SANDSTONE DRIVE
TSD Facility City:	HATFIELD
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	2
Waste Number:	P108
Container Number:	1
Container Type:	Fiberboard or plastic drums, barrels, kegs
Waste Quantity:	1
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	Not reported
Date TSP Sig:	Not reported

Click this hyperlink while viewing on your computer to access additional PA_MANIFEST: detail in the EDR Site Report.

C42 **TARGET STORE T1849** **RCRA-LQG** **1008404426**
SSE **139 FLATBUSH AVENUE** **NY MANIFEST** **NYR000134130**
< 1/8 **BROOKLYN, NY 11217**
0.069 mi.
363 ft. **Site 6 of 6 in cluster C**

Relative:
Higher

Actual:
49 ft.

RCRA-LQG:

Date form received by agency:	02/14/2014
Facility name:	TARGET STORE T1849
Facility address:	139 FLATBUSH AVENUE BROOKLYN, NY 11217
EPA ID:	NYR000134130
Mailing address:	PO BOX 111 MINNEAPOLIS, MN 55440

TARGET STORE T1849 (Continued) **1008404426**

Contact:	STEVE MUSSER
Contact address:	PO BOX 111 MINNEAPOLIS, MN 55440
Contact country:	US
Contact telephone:	(800) 587-2228
Contact email:	POC@TARGET.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	(800) 587-2228
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/25/2004
Owner/Op end date:	Not reported
Owner/operator name:	TARGET CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/21/2004
Owner/Op end date:	Not reported
Owner/operator name:	TARGET CORPORATION
Owner/operator address:	NICOLLET MALL - TPN-725 MINNEAPOLIS, MN 55403
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/21/2004
Owner/Op end date:	Not reported
Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	Not reported

TARGET STORE T1849 (Continued) **1008404426**

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/25/2004
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

TARGET STORE T1849 (Continued) **1008404426**

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Historical Generators:
Date form received by agency: 02/22/2012
Site name: TARGET STORE #T1849
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

TARGET STORE T1849 (Continued) **1008404426**

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

TARGET STORE T1849 (Continued) **1008404426**

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Date form received by agency: 01/01/2007
Site name: TARGET #1849
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/01/2006
Site name: TARGET #1849
Classification: Not a generator, verified

Date form received by agency: 08/02/2005
Site name: TARGET #1849
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D011
. Waste name: SILVER

Violation Status: No violations found

TARGET STORE T1849 (Continued) **1008404426**

NY MANIFEST:

EPA ID:	NYR000134130
Country:	USA
Location Address 1:	139 FLATBUSH AVENUE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	TARGET #1849
Contact:	TARGET #1849
Address:	139 FLATBUSH AVE
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	718-290-1109

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/10/2014
Trans1 Recv Date:	12/10/2014
Trans2 Recv Date:	12/12/2014
TSD Site Recv Date:	12/13/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	1
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000902988PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported

TARGET STORE T1849 (Continued) **1008404426**

Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/10/2014
Trans1 Recv Date:	12/10/2014
Trans2 Recv Date:	12/12/2014
TSD Site Recv Date:	12/13/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	1
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000902988PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/17/2014
Trans1 Recv Date:	12/17/2014
Trans2 Recv Date:	12/23/2014
TSD Site Recv Date:	12/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	40
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014

TARGET STORE T1849 (Continued) **1008404426**

Manifest Tracking Num:	000908028PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/17/2014
Trans1 Recv Date:	12/17/2014
Trans2 Recv Date:	12/23/2014
TSD Site Recv Date:	12/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	13
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000908028PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/17/2014
Trans1 Recv Date:	12/17/2014
Trans2 Recv Date:	12/23/2014

TARGET STORE T1849 (Continued) **1008404426**

TSD Site Recv Date:	12/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	3
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000908028PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/17/2014
Trans1 Recv Date:	12/17/2014
Trans2 Recv Date:	12/23/2014
TSD Site Recv Date:	12/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	1
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000908028PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N

TARGET STORE T1849 (Continued) **1008404426**

Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/17/2014
Trans1 Recv Date:	12/17/2014
Trans2 Recv Date:	12/23/2014
TSD Site Recv Date:	12/24/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	1
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000908028PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported

TARGET STORE T1849 (Continued) **1008404426**

TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	14
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	123
Units:	P - Pounds
Number of Containers:	2
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

TARGET STORE T1849 (Continued) **1008404426**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	47
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	6
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1

TARGET STORE T1849 (Continued) **1008404426**

Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	16
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014

TARGET STORE T1849 (Continued) **1008404426**

Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	67
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	25
Units:	P - Pounds
Number of Containers:	2
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

TARGET STORE T1849 (Continued) **1008404426**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	12/23/2014
Trans1 Recv Date:	12/23/2014
Trans2 Recv Date:	12/30/2014
TSD Site Recv Date:	01/02/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	1
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	000913070PSC
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	09/08/2014
Trans1 Recv Date:	09/08/2014
Trans2 Recv Date:	09/10/2014
TSD Site Recv Date:	09/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported

TARGET STORE T1849 (Continued) **1008404426**

Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	105
Units:	P - Pounds
Number of Containers:	2
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	006691767FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD082785429
Trans2 State ID:	PAD982661381
Generator Ship Date:	09/08/2014
Trans1 Recv Date:	09/08/2014
Trans2 Recv Date:	09/10/2014
TSD Site Recv Date:	09/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	60
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	006691767FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

TARGET STORE T1849 (Continued) **1008404426**

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD082785429
Trans2 State ID: PAD982661381
Generator Ship Date: 09/12/2014
Trans1 Recv Date: 09/12/2014
Trans2 Recv Date: 09/17/2014
TSD Site Recv Date: 09/18/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000134130
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: RID040098352
Waste Code: Not reported
Quantity: 71
Units: P - Pounds
Number of Containers: 1
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1
Year: 2014
Manifest Tracking Num: 007175153FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD082785429
Trans2 State ID: PAD982661381
Generator Ship Date: 09/12/2014
Trans1 Recv Date: 09/12/2014
Trans2 Recv Date: 09/17/2014
TSD Site Recv Date: 09/18/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000134130
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: RID040098352
Waste Code: Not reported
Quantity: 21
Units: P - Pounds
Number of Containers: 1

TARGET STORE T1849 (Continued) **1008404426**

Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	007175153FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD039322250
Trans2 State ID:	Not reported
Generator Ship Date:	03/19/2014
Trans1 Recv Date:	03/19/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/02/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000134130
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NCD000648451
Waste Code:	Not reported
Quantity:	11
Units:	P - Pounds
Number of Containers:	1
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	006534341FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

F43 **APRT** **NY LTANKS** **S109064108**
NNW **25 LAFAYTEE AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.070 mi.
371 ft. **Site 7 of 10 in cluster F**

Relative:
Lower

Actual:
38 ft.

LTANKS:

Site ID:	393211
Spill Number/Closed Date:	0711692 / 9/4/2008
Spill Date:	2/6/2008
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	bkfalvey
Referred To:	Not reported
Reported to Dept:	2/6/2008
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/6/2008
Spill Record Last Update:	9/4/2008
Spiller Name:	CARMEN SANDATAGO
Spiller Company:	APRT
Spiller Address:	25 LAFAYTEE AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	CARMEN SANDATAGO
Spiller Phone:	(646) 673-6714
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	342826
DEC Memo:	2/19/08 bf: Sent ttf letter to:Pietro Ruggiero25 Lafayette Assoc.104 South Central Ave., Rm. 10Valley Stream, NY 115802/26/08 bf: Letter returned and marked "RETURN TO SENDER, ATTEMPTED - NOT KNOWN, UNABLE TO FORWARD." Called Pierto Ruggiero of 25 Lafayette Assoc., which is the contact on application. They no longer own the property. They gave me new owner as 25 Lafayette Investor LLC and phone number is (212)262-1220. Called there and was given this number (212)488-1770. Spoke to Irvan Daniel. He said person handling tank tests is on vacation this week(Carmen Santingo - he was unsure of the last name). Told him I will email a letter to him explaining what needs to be done. TTF letter sent to:Irvan DanielThe Dermot Company25 Lafayette Investor, LLC320 West 57th St.New York, NY 100193/27/08 Received fax from Ted Dros of ProTest on 3/18/08. They were hired as the contractor to make repairs. bf9/04/08: Received TTT via fax from Pro Test on behalf of property owner. Pro Test performed on Feb. 6, 2008 tankk & system TT and it failed with a dry leak. On April 11, 2008 Pro Test technicians regasketed and rebolted the manhole cover and the tank & system passed second test. Technician reports that no visible sign of any contamination was found. TTT results reviewed and processed. Spill case is closure. (MA)

APRT (Continued) **S109064108**

Remarks: dry leak

Material:

Site ID:	393211
Operable Unit ID:	1150180
Operable Unit:	01
Material ID:	2140766
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	393211
Spill Tank Test:	2384625
Tank Number:	Not reported
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	2/6/2008
Test Method:	Horner EZ Check I or II

F44 **25 LAFAYETTE ASSOC** **NY AST** **U003389096**
NNW **25 LAFAYETTE AVE** **NY HIST AST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.070 mi.
371 ft. **Site 8 of 10 in cluster F**

Relative:
Lower

Actual:
38 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-292974
Program Type:	PBS
UTM X:	586377.40014000004
UTM Y:	4504466.7135100001
Expiration Date:	11/28/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	13348
Affiliation Type:	Mail Contact
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	Not reported
Contact Name:	MR. ERIC UNDERWOOD
Address1:	729 SEVENTH AVENUE
Address2:	15TH FLOOR
City:	NEW YORK
State:	NY

25 LAFAYETTE ASSOC (Continued) **U003389096**

Zip Code:	10019
Country Code:	001
Phone:	(347) 865-4655
EMail:	EUNDERWOOD@DERMOTCOMPANY.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/6/2011

Site Id:	13348
Affiliation Type:	On-Site Operator
Company Name:	25 LAFAYETTE AVE
Contact Type:	Not reported
Contact Name:	ELI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 860-6791
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/8/2011

Site Id:	13348
Affiliation Type:	Emergency Contact
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	Not reported
Contact Name:	VILIMA ROZARIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 331-6228
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/8/2011

Site Id:	13348
Affiliation Type:	Facility Owner
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	MANAGING AGENT
Contact Name:	ERIC UNDERWOOD
Address1:	729 SEVENTH AVE, 15TH FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001
Phone:	(347) 865-4655
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER

25 LAFAYETTE ASSOC (Continued) **U003389096**

Date Last Modified: 12/13/2012

Tank Info:

Tank Number: 001
Tank Id: 15220
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 03/19/1985
Capacity Gallons: 3000
Tightness Test Method: 21
Date Test: 04/11/2008
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: KAKYER
Last Modified: 12/13/2012
Material Name: #2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number: 2-292974
SWIS Code: 6101
Operator: BELLANDE ALTIDOR
Facility Phone: (718) 797-0518
Facility Addr2: 25 LAFAYETTE AVE
Facility Type: APARTMENT BUILDING
Emergency: PIETRO RUGGIERO
Emergency Tel: (516) 825-7700
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: 25 LAFAYETTE ASSOCRM.17
Owner Address: 104 SOUTH CENTRAL AVE
Owner City,St,Zip: VALLEY STREAM, NY 11580
Federal ID: Not reported
Owner Tel: (516) 825-7700
Owner Type: Corporate/Commercial

25 LAFAYETTE ASSOC (Continued) **U003389096**

Owner Subtype:	Not reported
Mailing Contact:	TODD WITTENSTEIN
Mailing Name:	25 LAFAYETTE ASSOCRM.17
Mailing Address:	104 SOUTH CENTRAL AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	VALLEY STREAM, NY 11580
Mailing Telephone:	(516) 825-7700
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	05/07/1998
Expiration:	07/14/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

D45 West < 1/8 0.072 mi. 380 ft. | **CON EDISON**
558 STATE ST
BROOKLYN, NY 11217

Site 2 of 10 in cluster D | **NY MANIFEST** | **S117066949**
N/A

Relative: Lower

Actual: 41 ft.

NY MANIFEST:

EPA ID:	NYP004596580
Country:	USA
Location Address 1:	558 STATE ST
Location Address 2:	SERVICE BOX # 48001
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TELLING
Address:	4 IRVING PLACE-15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	07/15/2014
Trans1 Recv Date:	07/15/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/16/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004596580
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	013256036JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CON EDISON (Continued) **S117066949**

Mgmt Method Type Code: H110

G46
NNE
< 1/8
0.075 mi.
394 ft.

MANHOLE 1837
FULTON ST & FORT GREEN PL
BROOKLYN, NY

NY Spills **S104195689**
N/A

Site 1 of 4 in cluster G

Relative:
Lower

Actual:
42 ft.

SPILLS:

Facility ID:	9907807
Facility Type:	ER
DER Facility ID:	121964
Site ID:	142955
DEC Region:	2
Spill Date:	9/28/1999
Spill Number/Closed Date:	9907807 / 11/30/1999
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	9/28/1999
CID:	257
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/28/1999
Spill Record Last Update:	5/25/2000
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JOE DEVOTI
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"con ed e2mis notes:3 qts of unknown oil on approx 500 gal water in MH-1837, spill appears to be contained. Liquid sample taken.MH1837 <1ppm pcb on lab sample #99-10148LUGO reports cleanup completed tag removed. Incident is closed.
Remarks:	3 PINTS IN 500 GALS OF WATER - REF#128070 - CLEANUP PENDING TEST RESULTS

Material:

Site ID:	142955
Operable Unit ID:	1082081
Operable Unit:	01
Material ID:	300490
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported

MANHOLE 1837 (Continued) **S104195689**

Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D47 **NYCTA CPM ENVIRO ENG DIV** **NJ MANIFEST** **S108270247**
NW **3 LAFAYETTE ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.078 mi.
413 ft. **Site 3 of 10 in cluster D**

Relative:
Lower

Actual:
38 ft.

NJ MANIFEST:

EPA Id:	NYR000140780
Mail Address:	2 BROADWAY
Mail City/State/Zip:	NEW YORK 10004
Facility Phone:	6462523500
Emergency Phone:	Not reported
Contact:	THOMAS DIAMA
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	NJA5314919
EPA ID:	NYR000140780
Date Shipped:	08/11/2006
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/11/2006
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported

NYCTA CPM ENVIRO ENG DIV (Continued) **S108270247**

Date TSDF Received Waste:	08/14/2006
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	10110621
Was Load Rejected:	NEW YORK 10004
Reason Load Was Rejected:	Not reported

D48 **MTA NYCT - FAN PLANTS #6340 & 6341** **RCRA-CESQG** **1010327949**
NW **3 LAFAYETTE AVE** **NY MANIFEST** **NYR000140780**
< 1/8 **BROOKLYN, NY 11217**
0.078 mi.
413 ft. **Site 4 of 10 in cluster D**

Relative:
Lower

Actual:
38 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	MTA NYCT - FAN PLANTS #6340 & 6341
Facility address:	3 LAFAYETTE AVE BROOKLYN, NY 11217
EPA ID:	NYR000140780
Mailing address:	BROADWAY - 5TH FLOOR NEW YORK, NY 10004
Contact:	THOMAS ABDALLAH
Contact address:	BROADWAY - 5TH FLOOR NEW YORK, NY 10004
Contact country:	US
Contact telephone:	(646) 252-3500
Contact email:	THOMAS.ABDALLAH@NYCT.COM
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

MTA NYCT - FAN PLANTS #6340 & 6341 (Continued) **1010327949**

Owner/operator name: MTA NYCT
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: 03/01/1968
Owner/Op end date: Not reported

Owner/operator name: MTA NYCT
Owner/operator address: BROADWAY - 5TH FLOOR
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1968
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/26/2006
Site name: MTA NYCT - FAN PLANTS #6340 & 6341
Classification: Small Quantity Generator

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 07/25/2006
Site name: MTA NYCT - FAN PLANTS #6340 & 6341
Classification: Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000140780
Country: USA
Location Address 1: 3 LAFAYETTE AVENUE
Location Address 2: Not reported
Location City: BROOKLYN

MTA NYCT - FAN PLANTS #6340 & 6341 (Continued) **1010327949**

Location State: NY
Location Zip Code: 11201
Location Zip Code 4: Not reported

Mailing Info:
Name: MTA NYCTA FAN PLANTS 6340 AND 6341
Contact: THOMAS DIANA
Address: 2 BROADWAY 5TH FLOOR
City/State/Zip: NEW YORK, NY 10004
Country: USA
Phone: 646-252-3500

Manifest:

Document ID: NJA5314919
Manifest Status: Not reported
Trans1 State ID: NYD046765574
Trans2 State ID: Not reported
Generator Ship Date: 08/11/2006
Trans1 Recv Date: 08/11/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/14/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000140780
Trans1 EPA ID: S8424
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00010
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 2006

E49
NNE
< 1/8
0.080 mi.
420 ft.

MANHOLE #1854 **NY Spills** **S106971211**
LAFAYETTE AVE/FORT GREEN **N/A**
BROOKLYN, NY

Site 4 of 10 in cluster E

Relative:
Higher

Actual:
46 ft.

SPILLS:
Facility ID: 0504916
Facility Type: ER
DER Facility ID: 296270
Site ID: 349839
DEC Region: 2
Spill Date: 7/22/2005
Spill Number/Closed Date: 0504916 / 1/10/2008
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: SKARAKHA
Referred To: Not reported
Reported to Dept: 7/23/2005

MANHOLE #1854 (Continued) **S106971211**

CID:	72
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/23/2005
Spill Record Last Update:	1/10/2008
Spiller Name:	ERT DESK
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT DESK
Contact Phone:	(212) 580-8383
DEC Memo:	01/10/08 - See eDocs for Con Ed report detailing cleanup and closure.e2mis no 159960E. SOBOLEWSKI FOUND APPROX. 2 GAL. OIL LEAKED FROM A JOINT RESERVOIR TANK ONTO 100 GAL WATER IN MH-1854. SOURCE OF LEAK IS TUBING. TANK ONLY ATTACHED TO ONE JOINT. FEEDER UNKNOWN AT THIS TIME. SPILL APPEARS TO BE CONTAINED. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. ENV STOP TAG 47998 PLACED. LIQUID SAMPLE TAKEN. CLEANUP PENDING PCB RESULTS FROM CHEM LAB. Lab Sequence Number: 05-07579-001 - PCBs < 1 ppm7/23/2005 11:00 HRS. -- C. LUGO OF BROOKLYN ENV OPS ON LOCATION AND PREVIOUSLY REPORTED POSSIBLE "D" FAULTS: (1) OIL TUBING FROM RESERVOIR TANK NOT ATTACHED TO JOINT, AND (2) IT APPEARS FEEDER MAY BE LEAKING DUE TO AMOUNT OF OIL SEEN ON ARC-PROOFING. 7/23/2005 12:45 HRS. -- BROOKLYN ENV OPS O/S B. BAMONTE ON LOCATION AND REPORTS #9 SUPERVISOR PLACED "D" FAULT TAG # 06283 DUE TO EMPTY TANK AND LEAKING TUBING ON DEAD FEEDER 4B07.
Remarks:	Leaking joint caused 2 gallons of dielectric fluid to spill. No to 5 questions.

Material:

Site ID:	349839
Operable Unit ID:	1107427
Operable Unit:	01
Material ID:	2097320
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D50 **NW** **< 1/8** **0.080 mi.** **422 ft.**	**CON EDISON - MANHOLE 55089** **ROCKWELL PLACE & LAFAYETTE AVE** **BROOKLYN, NY 11217** **Site 5 of 10 in cluster D**	**RCRA-LQG** **NY MANIFEST**	**1014397143** **NYP004194619**

Relative:
Lower

Actual:
38 ft.

RCRA-LQG:

Date form received by agency:	03/23/2010
Facility name:	CON EDISON - MANHOLE 55089
Facility address:	ROCKWELL PLACE & LAFAYETTE AVE NUE BROOKLYN, NY 11217
EPA ID:	NYP004194619
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	FRANKLYN MURRAY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-2808
Contact email:	MURRAYFR@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/17/2009
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/17/2009
Owner/Op end date:	Not reported

Handler Activities Summary:

CON EDISON - MANHOLE 55089 (Continued) **1014397143**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D008
. Waste name: LEAD

Historical Generators:

Date form received by agency:	09/17/2009
Site name:	CON EDISON
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004194619
Country:	USA
Location Address 1:	ROCKWELL PLACE & LAFAYETTE AVE
Location Address 2:	NUE
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLYN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	09/28/2009
Trans1 Recv Date:	09/28/2009
Trans2 Recv Date:	10/01/2009
TSD Site Recv Date:	10/01/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004194619

CON EDISON - MANHOLE 55089 (Continued) **1014397143**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	400.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894644GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

D51 **CON EDISON** **RCRA-CESQG** **1014397140**
NW **ROCKWELL PL & LAFAYETTE AVE** **NY MANIFEST** **NYP004194585**
< 1/8 **BROOKLYN, NY 11217**
0.080 mi.
422 ft. **Site 6 of 10 in cluster D**

Relative:
Lower

Actual:
38 ft.

RCRA-CESQG:

Date form received by agency:	09/17/2009
Facility name:	CON EDISON
Facility address:	ROCKWELL PL & LAFAYETTE AVE BROOKLYN, NY 11217
EPA ID:	NYP004194585
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	CAROLINE ISKANDER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4714
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from

CON EDISON (Continued) **1014397140**

the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP004194585
Country:	USA
Location Address 1:	ROCKWELL PL LAFAYETTE AVE
Location Address 2:	MH 55090
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLYN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	NJD003812047
Generator Ship Date:	09/28/2009
Trans1 Recv Date:	09/28/2009
Trans2 Recv Date:	10/01/2009
TSD Site Recv Date:	10/01/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004194585
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported

CON EDISON (Continued) **1014397140**

Quantity:	200.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000894621GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

D52 **160 FEET FROM NE CORNER** **NY Spills** **S106017089**
NW **LAFAYETTE AV & ROCKWELL PL** **N/A**
< 1/8 **BROOKLYN, NY**
0.080 mi.
422 ft. **Site 7 of 10 in cluster D**

Relative:
Lower

Actual:
38 ft.

SPILLS:

Facility ID:	0305085
Facility Type:	ER
DER Facility ID:	151960
Site ID:	181177
DEC Region:	2
Spill Date:	8/13/2003
Spill Number/Closed Date:	0305085 / 8/15/2013
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	081313 EMAIL CONTAINING DATA FOR SITE
Reported to Dept:	8/13/2003
CID:	282
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/13/2003
Spill Record Last Update:	8/15/2013
Spiller Name:	SAME
Spiller Company:	UNKNOWN FOR NOW
Spiller Address:	SAME
Spiller City,St,Zip:	N/A, ZZ
Spiller Company:	001

160 FEET FROM NE CORNER (Continued) **S106017089**

Contact Name: JAMES TREANOR
Contact Phone: (646) 252-3636
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"11/12/10 - spill re-assigned from Tibbe to Joe O'Connell11/28/11 - Obligado - spill re-assigned from O'connell to Obligado2/12/13 - Raphael Ketani. This spill case was reassigned to me.7/1/13 - Raphael Ketani. Soil borings were being done for the design of an NYCT ventilation plant in the vicinity of Lafayette Avenue and Rockwell Place. However, soil contamination was found 30 feet below grade. The source was unknown.I attempted to make a site visit today. I found the intersection of the two streets, but I wasn't sure of where the ventilation plant was. There was no surface expression of a ventilation motor building, duct works or such. There was a small garden park at this intersection. Across Flatbush Avenue, there was a triangular vacant lot with some construction office trailers, a little construction equipment and rubble. However, the surface of the lot was just a flat surface. Across Lafayette Avenue, there was a large pay parking lot and a defunct garden supply center, but nothing else. So, I took some pictures.I sent an e-mail to Toni Watts of NYCT (646) 252-5939/Toni.Watts@nyct.com wherein I requested information regarding the location of the ventilation plant.8/13/13 - Raphael Ketani. Ms. Watts sent me an e-mail today with information regarding the location and construction of the ventilation plant.In her e-mail she wrote the following:I just spoke to Gregory and Cadecia. They forwarded me this site and explained that the vent plant contruction is completed. In the process of the construction, there was an excavation that was 40 feet deep. If contamination was present, it would have been removed. We do not have any additional information at this time. The only thing that would be noticeable at the site would be a concrete slab on top of the vent. The vent is underground and they are not sure if it is accessible.She had included the web address for the Judlau OHL Group construction projects web site (www.judlau.com/projects/completed), I obtained the following information:Client: New York City TransitLocation: Brooklyn, NYProject Value: $48,978,000Time Frame: 40 monthsDescription: This project involved the construction a new underground tunnel ventilation facility for New York City Transit. A new four-fan vent plant was constructed along with a substation enclosure. There was a significant amount of work on the tracks, as Judlau had to isolate each of the individual tunnels through the use of over 180 remotely controlled dampers. Judlau also built a brand new substation structure for future development.This project required that a secant pile wall be installed, as the excavation took place adjacent to a 12 story masonry building. The work involved a large open cut excavation approximately 500 feet long, in excess of 40 feet deep and from curb line to curb line. The work site is located in a busy and densely-populated residential and commercial area.Also, I was able to download 6 pictures from this website which show the location of the site and the construction which took place. The pictures are in the e-docs. One of the pictures is a view looking north towards the Lafayette Avenue and Rockwell Place intersection. This picture confirms that the ventilation plant is under the large, triangular, pay parking lot that I had walked around. As the pictures were undated, I used the date I downloaded them, 8/13/2013, in order to save them in the e-docs.8/15/13 - Raphael Ketani. The spill case was presented to Hassan Hussein for closure. I stated that though the soil contamination was found at 30 feet below grade. They had dug

160 FEET FROM NE CORNER (Continued) **S106017089**

down to 40 feet below grade. Also, the excavation reached the limits of the property boundaries. So, the contamination was most likely removed. I also presented the pictures I had taken and the pictures that Judlau staff had taken - proving that I had visited the same location and that the excavation was deep and to the property limits. Mr. Hussein approved the spill case for closure.As the excavating took place down to 40 feet below grade (below where the soil contamination had been found) and to the limits of the property, I determined that there is little or no residual contamination left. Also, the pictures do not indicate the presence of groundwater in the former excavation pit. So the contamination, in all likelihood, will not travel. Additionally, any residual contamination is trapped between the secant wall and the native soil. Therefore, the residual contamination is not a threat to the public or the environment. I closed the case effective today.

Remarks: they were doing boring samples for design work for ventalating plant and found petroleum contamination 30 feet below the surface.

Material:

Site ID:	181177
Operable Unit ID:	873372
Operable Unit:	01
Material ID:	502354
Material Code:	9999
Material Name:	Other -
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E53
NNE
< 1/8
0.081 mi.
426 ft.

Relative:
Higher

Actual:
46 ft.

MH 1854 **NY Spills** **S104195174**
FORT GREEN PL/LAFAYETTE **N/A**
BROOKLYN, NY

Site 5 of 10 in cluster E

SPILLS:

Facility ID:	9907255
Facility Type:	ER
DER Facility ID:	120523
Site ID:	141123
DEC Region:	2
Spill Date:	9/17/1999
Spill Number/Closed Date:	9907255 / 11/29/1999
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	9/17/1999
CID:	270

MH 1854 (Continued) **S104195174**

Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/17/1999
Spill Record Last Update:	5/24/2000
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"con ed e2mis notes:While doing routine inspections on FDR 6B53 he found 1 qt oil on mud in bottom of MH 1854. Marchione has stated he sees a joint regulator and it appears wet around fittings. He has stated the oil may be coming from the joint regulator. He has stated the amount of mud is approx. 10-1 gallon buckets. Sample has been taken. Also changed to unknown oil- dielectric.Also changed to unknown oil, dielectric, found a drain hole that water is running through. No evidence of oil running thru. Drain is not in contac area of oil, about 2' away. Will place bolognies to secure drain. 2 samples - 1 from under the joint regulator on floor and other from cable (epoxy patch was leaking). There is a D-Fault in MH.Cement sealed the drain. No oil reached drain.Seq#99-09801@1ppm, cleanup completed and tag removed, incident is closed.
Remarks:	clean up pending lab results con ed 127871

Material:

Site ID:	141123
Operable Unit ID:	1081546
Operable Unit:	01
Material ID:	299954
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E54 NE < 1/8 0.081 mi. 427 ft. | **LOT 31,TAXBLOCK 2113 FULTON STREET BROOKLYN, NY** | **NY E DESIGNATION** | **S108984050 N/A**

Site 6 of 10 in cluster E

Relative: Higher

Actual: 50 ft.

E DESIGNATION:

Tax Lot(s):	31
Tax Block:	2113
Borough Code:	Not reported
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

H55 SSW < 1/8 0.086 mi. 454 ft. | **MANHOLE 2773 4TH AVENUE & ATLANTIC AVENUE BROOKLYN, NY** | **NY Spills** | **S108129783 N/A**

Site 1 of 7 in cluster H

Relative: Lower

Actual: 43 ft.

SPILLS:

Facility ID:	0605341
Facility Type:	ER
DER Facility ID:	318408
Site ID:	368480
DEC Region:	2
Spill Date:	8/8/2006
Spill Number/Closed Date:	0605341 / 11/15/2006
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	8/8/2006
CID:	77
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/8/2006
Spill Record Last Update:	11/15/2006
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	MANHATTAN, NY

MANHOLE 2773 (Continued) **S108129783**

Spiller Company: 999
Contact Name: ERT DESK' MIKE DAUGHTERY
Contact Phone: (212) 580-8383
DEC Memo: 11/15/06 - See e-docs for Con Ed report detailing cleanup and closure.201768. see eDocs
Remarks: 1 pint of oil on 300 gals of water. clean up in progress. con ed ref 201768. no to 5 questions.

Material:
Site ID: 368480
Operable Unit ID: 1126354
Operable Unit: 01
Material ID: 2115886
Material Code: 0541A
Material Name: DIELECTRIC FLUID
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

H56
SSW
< 1/8
0.086 mi.
454 ft.

SPILL NUMBER 0311519 **NY Spills** **S106124768**
4TH AVENUE & ATLANTIC AVENUE **N/A**
BROOKLYN, NY

Site 2 of 7 in cluster H

Relative:
Lower

Actual:
43 ft.

SPILLS:
Facility ID: 0311519
Facility Type: ER
DER Facility ID: 318408
Site ID: 92504
DEC Region: 2
Spill Date: 1/12/2004
Spill Number/Closed Date: 0311519 / 3/10/2004
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: SKARAKHA
Referred To: Not reported
Reported to Dept: 1/12/2004
CID: 72
Water Affected: Not reported
Spill Source: Commercial Vehicle
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 1/12/2004

SPILL NUMBER 0311519 (Continued) **S106124768**

Spill Record Last Update: 3/11/2004
Spiller Name: MARK SCHLAGEL
Spiller Company: CON EDISON 151710
Spiller Address: 128 WEST END AVENUE
Spiller City,St,Zip: NEW YORK, NY 10023
Spiller Company: 001
Contact Name: MARK SCHLAGEL
Contact Phone: (212) 580-8383
DEC Memo: e2mis no. 151710:1/12/2004 20:25 HRS.MIKE BOVE #02203, O.S. WITH CABLE, REPORTS WHILE ON LOCATION TO PULL CABLE FOR FEEDER 1B58 AT 20:20 HRS. HYDRAULIC ON CABLE PULLER #60655 LEAKED, SPILLING APPROX. 25 GAL. HYDRAULIC FLUID ONTO STREET (CONCRETE SURFACE). SPILL CONTAINED. NO SEWERS OR WATERWAYS AFFECTED. CLEANUP IN PROGRESS.SPILL AMOUNT INCREASED TO 40 GAL'S, AS PER CONED MECHANIC TANK HOLDS 40 GAL'S OF FLUID. OPENED VALVE BOX AND FOUND OIL INSIDE. WILL DUMP ABSORBENT IN BOX TO SOAK UP AND SOLIDIFY OIL.23:15 HRS OIL ABSORBENT WAS PLACED ON 1/2 OF THE AFFECTED AREA INSTREET AND WAS REMOVED WITH VACTOR USING SAFE WASH. THE VALVE BOX WAS UNCOVERED AND FOUND APPROX FIVE GALLONS OF HYDRAULIC OIL IN IT (NO WATER). THAT VALVE BOX WILL BE CLEANED SHORTLY ALONG WITH THE OTHER HALF OF THE STREET WHEN TRUCK MOVES. CABLE PULLING VEH# 60655 LEFT LOCATION & IS NOW IN TRANSPORTATION.1/13/04 PLACED OIL ABSORBENT ON SPILL AREA & SWEPT UP, THEN BARELLED. SLICKS POURED IN TO VALVE BOX THEN ALL LIQ. & SOLID DEBRIS REMOVED BY ASTORIA TANKER. CLEANUP IS COMPLETE AT THIS TIME.
Remarks: Faulty cable puller (#60655) caused 25 gallons of hydraulic fluid to leak. In process of being cleaned up.

Material:
Site ID: 92504
Operable Unit ID: 876877
Operable Unit: 01
Material ID: 500320
Material Code: 0010
Material Name: Hydraulic Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 25
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

H57 **ROADWAY** **NY Spills** **S111457842**
SSW **ATLANTIC & 4TH AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.086 mi.
454 ft. **Site 3 of 7 in cluster H**

Relative:
Lower

Actual:
43 ft.

SPILLS:
Facility ID: 1112254
Facility Type: ER
DER Facility ID: 414626
Site ID: 460185
DEC Region: 2
Spill Date: 1/20/2012

ROADWAY (Continued) **S111457842**

Spill Number/Closed Date:	1112254 / 1/23/2012
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	2401
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	1/20/2012
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/20/2012
Spill Record Last Update:	1/23/2012
Spiller Name:	PAULINE
Spiller Company:	UNKNOWN
Spiller Address:	ATLANTIC & 4TH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	PAULINE
Contact Phone:	Not reported
DEC Memo:	01/20/12- Zhune spoke to Paulline Brown from FD. Spill was found on the road. They don't know if there was an accident or a passing vehicle spill the oil. Sanitation Department cleaned the spill. Spill Closed.
Remarks:	road affected clean up in progress

Material:

Site ID:	460185
Operable Unit ID:	1210277
Operable Unit:	01
Material ID:	2207879
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	7
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

I58 ESE < 1/8 0.087 mi. 462 ft. | **SHIRLEY CHISHOLM STATE OFFICE BUILDING**
55 HANSON PLACE
BROOKLYN, NY 11217 | **NY AST** | **U004078482**
N/A

Site 1 of 4 in cluster I

Relative: Higher

Actual: 59 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-602648
Program Type:	PBS
UTM X:	586593.75901000004
UTM Y:	4504305.9402799997
Expiration Date:	03/29/2016
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	24604
Affiliation Type:	Facility Owner
Company Name:	NEW YORK STATE OFFICE OF GENERAL SERVICE
Contact Type:	PUBLIC BUILDING MANAGER
Contact Name:	KEVIN CAHILL
Address1:	CORNING TOWER, EMPIRE STATE PLAZA, 39TH FL
Address2:	Not reported
City:	ALBANY
State:	NY
Zip Code:	12242
Country Code:	001
Phone:	(518) 474-6057
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	5/27/2011

Site Id:	24604
Affiliation Type:	Mail Contact
Company Name:	NEW YORK STATE OFFICE OF GENERAL SERVICES
Contact Type:	Not reported
Contact Name:	KEVIN CAHILL
Address1:	55 HANSON PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 722-2005
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	5/27/2011

Site Id:	24604
Affiliation Type:	On-Site Operator
Company Name:	NEW YORK STATE BUILDING
Contact Type:	Not reported
Contact Name:	OGS
Address1:	Not reported
Address2:	Not reported
City:	Not reported

SHIRLEY CHISHOLM STATE OFFICE BUILDING (Continued) **U004078482**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 722-2005
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	24604
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK STATE OFFICE OF GENERAL SERVICE
Contact Type:	Not reported
Contact Name:	ANTHONY CARAGINE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 722-2884
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	1
Tank Id:	50970
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B01 - Tank External Protection - Painted/Asphalt Coating
G03 - Tank Secondary Containment - Vault (w/o access)
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	04/01/1989
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/10/2011
Register:	True
Modified By:	NRLOMBAR

SHIRLEY CHISHOLM STATE OFFICE BUILDING (Continued) **U004078482**

Last Modified:	07/06/2011
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	2
Tank Id:	50971
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
G03 - Tank Secondary Containment - Vault (w/o access)
A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	04/01/1989
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/10/2011
Register:	True
Modified By:	NRLOMBAR
Last Modified:	07/06/2011
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	3
Tank Id:	50972
Material Code:	0008
Common Name of Substance:	Diesel

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
G03 - Tank Secondary Containment - Vault (w/o access)
C01 - Pipe Location - Aboveground
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	04/01/1989

SHIRLEY CHISHOLM STATE OFFICE BUILDING (Continued) **U004078482**

Capacity Gallons:	550
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Diesel

H59 **132 FLATBUSH AVE/MERIT** **NY Spills** **S102144547**
SSW **132 FLATBUSH AVENUE** **N/A**
< 1/8 **NEW YORK CITY, NY**
0.089 mi.
468 ft. **Site 4 of 7 in cluster H**

Relative:
Lower

Actual:
43 ft.

SPILLS:

Facility ID:	8701148
Facility Type:	ER
DER Facility ID:	150383
Site ID:	179155
DEC Region:	2
Spill Date:	5/11/1987
Spill Number/Closed Date:	8701148 / 8/21/1987
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	UNASSIGNED
Referred To:	Not reported
Reported to Dept:	5/11/1987
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	8/21/1987
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/20/1987
Spill Record Last Update:	9/2/1987
Spiller Name:	Not reported
Spiller Company:	MERIT OIL COMPANY
Spiller Address:	4165 HEMPSTEAD TURNPIKE
Spiller City,St,Zip:	BETHPAGE, NY 11714
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was " " Not reported
Remarks:	UNDERGROUND TANK LOSING PRODUCT FOR UNKNOWN REASON.

Material:

Site ID:	179155
Operable Unit ID:	907629
Operable Unit:	01
Material ID:	471104

132 FLATBUSH AVE/MERIT (Continued) **S102144547**

Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	8907321
Facility Type:	ER
DER Facility ID:	150383
Site ID:	179156
DEC Region:	2
Spill Date:	10/24/1989
Spill Number/Closed Date:	8907321 / 6/24/2013
Spill Cause:	Unknown
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	VXBREVDO
Referred To:	NO FILE
Reported to Dept:	10/24/1989
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/25/1989
Spill Record Last Update:	6/24/2013
Spiller Name:	Not reported
Spiller Company:	MERIT
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"TRANSFERRED FROM SULLLIVAN TO SUN. 04/12/0412/16/2005 - Feng - Reassigned from Sun to Feng as per Sun. (RJF)06/24/2013 - The Department has no record or file for this spill case. No proof of impact to soil or groundwater could be established. Area of this spill case has been developed for many years with Atlantic Avenue Shopping Mall, Modell's Sporting Goods, and Barclay's Center. Streets are paved. Closure of this 24-year old case is appropriate. Spill Case is closed effective 06/24/2013. V. Brevdo
Remarks:	4K TANK SYSTEM HAVING VAPOR RECOVERY WORK DONE, CONTRACTOR DISCOVERED GASOLINE IN VAULT AREA, ODOR & LEAKAGE NOTICED, NYCFD NOTIFIED.

132 FLATBUSH AVE/MERIT (Continued) **S102144547**

Material:

Site ID:	179156
Operable Unit ID:	934948
Operable Unit:	01
Material ID:	444108
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E60
NE
< 1/8
0.089 mi.
472 ft.

MTA NYCT - FULTON STREET STATION **RCRA NonGen / NLR** **1001202908**
FULTON ST & LAFAYETTE AVE **NY MANIFEST** **NYR000041772**
BROOKLYN, NY 11217

Site 7 of 10 in cluster E

Relative:
Higher

Actual:
47 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	MTA NYCT - FULTON STREET STATION
Facility address:	FULTON ST & LAFAYETTE AVE BROOKLYN, NY 11217
EPA ID:	NYR000041772
Mailing address:	COLUMBUS CIR - 25TH FLOOR NEW YORK, NY 10019
Contact:	DAVID RISUENO
Contact address:	COLUMBUS CIR - 25TH FLOOR NEW YORK, NY 10019
Contact country:	US
Contact telephone:	(212) 307-5589
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MTA NEW YORK CITY TRANSIT
Owner/operator address:	10 COLUMBUS CIR - 25TH FLOOR NEW YORK, NY 10019
Owner/operator country:	US
Owner/operator telephone:	(212) 307-5589
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MTA NEW YORK CITY TRANSIT
Owner/operator address:	10 COLUMBUS CIR - 25TH FLOOR

MTA NYCT - FULTON STREET STATION (Continued) **1001202908**

NEW YORK, NY 10019
Owner/operator country: US
Owner/operator telephone: (212) 307-5589
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: MTA NYCT - FULTON STREET STATION
Classification: Not a generator, verified

Date form received by agency: 06/30/1997
Site name: MTA NYCT - FULTON STREET STATION
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/20/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

NY MANIFEST:
EPA ID: NYR000041772
Country: USA
Location Address 1: FULTON ST & LAFAYETTE AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY

MTA NYCT - FULTON STREET STATION (Continued) **1001202908**

Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: MTA NYCT - FULTON ST STATION
Contact: DAVID RISUENO
Address: 10 COLUMBUS CIR - 25TH FLR
City/State/Zip: NEW YORK, NY 10019
Country: USA
Phone: 212-307-5589

Manifest:

Document ID: NJA2762108
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: ES5811
Trans2 State ID: Not reported
Generator Ship Date: 09/02/1997
Trans1 Recv Date: 09/02/1997
Trans2 Recv Date: / /
TSD Site Recv Date: 09/02/1997
Part A Recv Date: 09/12/1997
Part B Recv Date: 10/08/1997
Generator EPA ID: NYR000041772
Trans1 EPA ID: NJ0000027193
Trans2 EPA ID: Not reported
TSDF ID: NJD002200046
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00150
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1997

D61 **MANHOLE # 1849** **NY Spills** **S107408640**
WNW **LAFAYETTE AVE/FLATBUSH AV** **N/A**
< 1/8 **BROOKLYN, NY**
0.090 mi.
473 ft. **Site 8 of 10 in cluster D**

Relative:
Lower

Actual:
39 ft.

SPILLS:
Facility ID: 0506710
Facility Type: ER
DER Facility ID: 299264
Site ID: 351970
DEC Region: 2
Spill Date: 8/31/2005
Spill Number/Closed Date: 0506710 / 1/11/2006
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 8/31/2005
CID: 408

MANHOLE # 1849 (Continued) **S107408640**

Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/31/2005
Spill Record Last Update:	1/11/2006
Spiller Name:	ERT DESK
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	MANHATTAN, NY 10003
Spiller Company:	999
Contact Name:	ERT DESK'
Contact Phone:	(212) 580-8383
DEC Memo:	160815. 31-AUG-2005 1219. CHIEF INSPECTOR, FRANK CALVO, EMPLOYEE NO. 17195 REPORTS WHILE ON LOCATION TO RESTRUCTURE MH1849, LOCATED ON THE S/S LAFAYETTE AVE, 12' E/O FLATBUSH AVE, CREW MEMBER NICOLA SORANNO, EMPLOYEE NO. 11084 NOTED A JOINT ON A DISTRIBUTION FEEDER LEAKING INTO THE SOIL OF THE EXCAVATION. NO FIRE OR SMOKE INVOLVED, NO INJURIES RELATED TO THE SPILL, NO SEWERS, WATERWAYS OR PRIVATE PROPERTY AFFECTED. THE RATE OF THE LEAK IS APPX 1 DRIP PER MINUTE AND THERE IS APPX 2 OZ IN THE DIRT AT PRESENT. THEY ARE UNABLE TO SAMPLE OR TAG THE STRUCTURE PENDING THE ARRIVAL OF NUMBER NINE, AND SAFE ACCESS. THEY HAVE MADE THE AREA SAFE AND ARE AWATING THE ARRIVAL OF THE RED WAGON. CREWCHIEF CALVO WILL UPDATE. BORCHERDINGCUpdate - 1515hrs - 08/31/05. Frank Calvo reports that 2 UG OS arrived and dfaulted structure - dfault # 06515 placed. Fdr # unknown at this time. cn#19661.
Remarks:	2 OUNZES OF PRODUCT AND HAS NOT BEEN CLEANED UP YET, FROM FEEDER CABLE, NO TO 5 QUESTIONS, CLEAN UP PENDING CREW ARRIVAL CON ED # 160815

Material:

Site ID:	351970
Operable Unit ID:	1109473
Operable Unit:	01
Material ID:	2099497
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

H62 South < 1/8 0.090 mi. 475 ft. | **LI RAIL STORAGE YARD HANSON PLACE BROOKLYN, NY** | **NY Spills** | **S104953372 N/A**

Site 5 of 7 in cluster H

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	0013052
Facility Type:	ER
DER Facility ID:	227469
Site ID:	280163
DEC Region:	2
Spill Date:	3/13/2001
Spill Number/Closed Date:	0013052 / 4/10/2001
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	3/13/2001
CID:	252
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/13/2001
Spill Record Last Update:	4/10/2001
Spiller Name:	RICH SCANNELL
Spiller Company:	SCHIAVONE CONSTRUCTION
Spiller Address:	150 MEADOWLANDS PKWY
Spiller City,St,Zip:	SECAUCUS, NJ
Spiller Company:	001
Contact Name:	RICH SCANNELL
Contact Phone:	(973) 483-0722
DEC Memo:	Not reported
Remarks:	MALFUNCTION IN COMPRESSOR CAUSED SPILL WHICH IS BEEN CLEANED UP.

Material:

Site ID:	280163
Operable Unit ID:	834997
Operable Unit:	01
Material ID:	563223
Material Code:	0021
Material Name:	Transmission Fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	Yes
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E63 NNE < 1/8 0.090 mi. 476 ft. | **MH 1837**
FORT GREEN PL/FULTON ST
BROOKLYN, NY

Site 8 of 10 in cluster E

NY Spills | **S104194202**
N/A

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	9906059
Facility Type:	ER
DER Facility ID:	190761
Site ID:	231455
DEC Region:	2
Spill Date:	8/20/1999
Spill Number/Closed Date:	9906059 / 11/8/1999
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	8/20/1999
CID:	270
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/20/1999
Spill Record Last Update:	5/30/2000
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con ed e2mis notes:FDR 6B53 found approx 1 qt unknown oil on approx 500 gallons water in MH 1837. Took a liquid sample.Lab Seq #99-08758, results <1.00ppm, cleanup complete and tag removed. Incident is closed.
Remarks:	127337 clean up pending

Material:

Site ID:	231455
Operable Unit ID:	1080511
Operable Unit:	01
Material ID:	557859
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported

MH 1837 (Continued) **S104194202**

Oxygenate: False

Tank Test:

E64
NNE
< 1/8
0.091 mi.
478 ft.

Relative:
Higher

Actual:
45 ft.

MANHOLE 66300 **NY Spills** **S111317438**
FULTON ST / FORT GREEN PLACE INTERSECTION **N/A**
BROOKLYN, NY

Site 9 of 10 in cluster E

SPILLS:

Facility ID:	1108436
Facility Type:	ER
DER Facility ID:	410725
Site ID:	456169
DEC Region:	2
Spill Date:	10/4/2011
Spill Number/Closed Date:	1108436 / 11/9/2011
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	10/4/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/4/2011
Spill Record Last Update:	11/9/2011
Spiller Name:	ERT
Spiller Company:	CON ED
Spiller Address:	FULTON ST / FORT GREEN PLACE INTERSECTION
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERT
Contact Phone:	(212) 580-8383
DEC Memo:	11/9/11 - Austin - 1 quart of unk. oil in manhole vault - Con Ed contained and cleaned up the spill - Spill closed - end
Remarks:	CLEAN UP IN PROGRESS

Material:

Site ID:	456169
Operable Unit ID:	1206312
Operable Unit:	01
Material ID:	2203353
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum

MANHOLE 66300 (Continued) **S111317438**

Quantity: 0.25
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

E65
NNE
< 1/8
0.091 mi.
478 ft.

Relative:
Higher

Actual:
45 ft.

MANHOLE 1855 **NY Spills** **S106970084**
FORT GREENE PLACE AT FULTON **N/A**
BROOKLYN, NY

Site 10 of 10 in cluster E

SPILLS:
Facility ID: 0505093
Facility Type: ER
DER Facility ID: 296495
Site ID: 350052
DEC Region: 2
Spill Date: 7/27/2005
Spill Number/Closed Date: 0505093 / 5/3/2007
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS: 2401
Investigator: GDBREEN
Referred To: Not reported
Reported to Dept: 7/27/2005
CID: 38
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Responsible Party
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 7/27/2005
Spill Record Last Update: 5/3/2007
Spiller Name: ERT DESK
Spiller Company: CON EDISON
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: ERT DESK'
Contact Phone: (212) 580-8383
DEC Memo: 05/03/07 - See e-docs for Con Ed report detailing cleanup and closure.160080. 7/27/2005 18:25 HRS. F. PERROTTA #07468, SPLICER WITH UNDERGROUND, REPORTS WHILE ON LOCATION FOR OPEN MAINS (ACCT 20090) AT 18:20 HRS. FOUND APPROX. 1 PINT OIL SPILLED ON FLOOR OF MH-1855. SOURCE WAS A LEAKING FEEDER JOINT. NO SUMP. SPILL APPEARS TO BE CONTAINED. NO SEWERS OR WATERWAYS APPEAR TO BE AFFECTED. NO PRIVATE PROPERTY AFFECTED. NO FIRE OR SMOKE INVOLVED. ENV. STOP TAG # 22870 PLACED. SAMPLE TAKEN ON "E" PRIORITY TURNAROUND. CHAIN OF CUSTODY

MANHOLE 1855 (Continued) **S106970084**

FORM # DD-04861 PLACED. CLEANUP PENDING PCB RESULTS AND REPAIRS TO LEAKING FEEDER JOINT. ** AS PER ENV DESK SUPV.D. HEARNS, INCIDENT NOT PLACED ON 72-HOUR DEMINIMIS BECAUSE LEAKING JOINT REQUIRES DEENERGIZATION OF FEEDER TO MAKE REPAIRS AND THIS IS NOT EXPECTED TO HAPPEN IN 72-HOURS DUE TO HEAT-RELATED FEEDER WORK.-- W. WAINWRIGHT #17344 --7/27/2005 18:57 HRS. -- F. PERROTTA REPORTS UNDERGROUND SUPERVISOR PLACED "D" FAULT TAG IN STRUCTURE (DID NOT KNOW TAG #). FEEDER UNKNOWN AT THIS TIME. -- W.W. #17344 --

Remarks: leaky feeder spilled 1 quart of dieelctric fluid. Cleanup pending deenerization of feeder. con edison ref 160080

Material:

Site ID:	350052
Operable Unit ID:	1107634
Operable Unit:	01
Material ID:	2097523
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D66 **MANHOLE #9735** **NY Spills** **S104788474**
WNW **ROCKELL PL & LAFAETTE AV** **N/A**
< 1/8 **BROOKLYN, NY**
0.095 mi.
503 ft. **Site 9 of 10 in cluster D**

Relative:
Lower

Actual:
39 ft.

SPILLS:

Facility ID:	0005857
Facility Type:	ER
DER Facility ID:	245462
Site ID:	303813
DEC Region:	2
Spill Date:	8/16/2000
Spill Number/Closed Date:	0005857 / 2/13/2002
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	8/16/2000
CID:	257
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False

MANHOLE #9735 (Continued) **S104788474**

UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/16/2000
Spill Record Last Update:	2/13/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	TONY LOPEZ
Contact Phone:	(212) 580-6764
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"
Remarks:	2 quarts on 500 gals for water cleanup pending test results ref#132894 Not reported

Material:

Site ID:	303813
Operable Unit ID:	826816
Operable Unit:	01
Material ID:	546996
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

D67 **EDR US Hist Auto Stat** **1015457289**
WNW **378 SCHERMERHORN ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.096 mi.
509 ft. **Site 10 of 10 in cluster D**

Relative:
Lower

Actual:
39 ft.

EDR Historical Auto Stations:

Name:	MANORHAVEN AUTO REPAIR INC
Year:	2005
Address:	378 SCHERMERHORN ST
Name:	AUTO BODY XPRESS INC
Year:	2007
Address:	378 SCHERMERHORN ST
Name:	AUTO BODY XPRESS INC
Year:	2008
Address:	378 SCHERMERHORN ST

G68 NNE < 1/8 0.097 mi. 510 ft. | **K.S. PRIDE CLEANERS II**
711 FULTON STREET
BROOKLYN, NY 11217 | **NY DRYCLEANERS** | **S110247001**
N/A

Site 2 of 4 in cluster G

Relative: Lower

Actual: 42 ft.

DRYCLEANERS:

Facility ID:	SHUT DOWN
Phone Number:	Not reported
Region:	2
Registration Effective Date:	N/A
Inspection Date:	Not reported
Install Date:	Not reported
Drop Shop:	Not reported
Shutdown:	Y
Alternate Solvent:	Not reported
Current Business:	NOT A DRY CLEANER

F69 NNW < 1/8 0.097 mi. 511 ft. | **BROOKLYN ARMS HOTEL**
268 ASHLAND PL
BROOKLYN, NY 11217 | **NY UST** | **U000404309**
N/A

Site 9 of 10 in cluster F

Relative: Lower

Actual: 37 ft.

UST:

Id/Status:	2-333743 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	10/02/1992
UTM X:	586360.12730000005
UTM Y:	4504515.3337099999
Site Type:	Unknown

Affiliation Records:

Site Id:	15847
Affiliation Type:	Facility Owner
Company Name:	JAMES F SLATTEREY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	268 ASHLAND PL
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 858-2000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15847
Affiliation Type:	Mail Contact
Company Name:	JAMES F SLATTEREY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	268 ASHLAND PL
Address2:	Not reported
City:	BROOKLYN

BROOKLYN ARMS HOTEL (Continued) **U000404309**

State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 858-2000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15847
Affiliation Type:	On-Site Operator
Company Name:	BROOKLYN ARMS HOTEL
Contact Type:	Not reported
Contact Name:	JAMES F SLATTEREY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 858-2000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15847
Affiliation Type:	Emergency Contact
Company Name:	JAMES F SLATTEREY
Contact Type:	Not reported
Contact Name:	MR PHILIP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 858-2000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	250
Tank ID:	20808
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	10000
Install Date:	12/01/1976
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

BROOKLYN ARMS HOTEL (Continued) **U000404309**

Tightness Test Method:	00
Date Test:	Not reported
Next Test Date:	12/27/1987
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

I70 **NYC DEP** **RCRA NonGen / NLR** **1014395474**
East **113 S ELLIOT PL** **NY MANIFEST** **NYP003663739**
< 1/8 **BROOKLYN, NY 11217**
0.098 mi.
515 ft. **Site 2 of 4 in cluster I**

Relative:
Higher

Actual:
59 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/19/2007
Facility name:	NYC DEP
Facility address:	113 S ELLIOT PL BROOKLYN, NY 11217
EPA ID:	NYP003663739
Mailing address:	JUNCTION BLVD FLUSHING, NY 11373
Contact:	JOANNE NURSE
Contact address:	JUNCTION BLVD FLUSHING, NY 11373
Contact country:	US
Contact telephone:	(718) 595-4675
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

NYC DEP (Continued) **1014395474**

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Lamps
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Pesticides
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Thermostats
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP003663739
Country:	USA
Location Address 1:	113 SOUTH ELLIOT PLACE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYCDEP
Contact:	SHYANIAL MADHAVANI
Address:	96-05 HORACE HARDING EXPRESSWAY
City/State/Zip:	CORONA, NY 11368
Country:	USA
Phone:	718-595-4784

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD049178296
Trans2 State ID:	Not reported
Generator Ship Date:	10/10/2007
Trans1 Recv Date:	10/10/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/06/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP003663739
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX480000000
Waste Code:	Not reported
Quantity:	40
Units:	P - Pounds
Number of Containers:	1

NYC DEP (Continued) **1014395474**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	002698300JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD049178296
Trans2 State ID:	Not reported
Generator Ship Date:	10/10/2007
Trans1 Recv Date:	10/10/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/06/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP003663739
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX480000000
Waste Code:	Not reported
Quantity:	20
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	002698300JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

J71 WSW < 1/8 0.100 mi. 526 ft. | **CON EDISON**
543 ATLANTIC AVE
BROOKLYN, NY 11201 | **RCRA-CESQG** | **1012185157**
NY MANIFEST | **NYP004159596**

Site 1 of 7 in cluster J

Relative: Lower

Actual: 41 ft.

RCRA-CESQG:

Date form received by agency:	07/09/2008
Facility name:	CON EDISON
Facility address:	543 ATLANTIC AVE BROOKLYN, NY 11201
EPA ID:	NYP004159596
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	MICHAEL D'AGOSTINO
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(917) 559-8958
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP004159596
Country:	USA

CON EDISON (Continued) **1012185157**

Location Address 1:	543 ATLANTIC AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLYN MURRAY
Address:	4 IRVING PL RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	07/09/2008
Trans1 Recv Date:	07/09/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004159596
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	300.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001433503FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

K72 **NYNEX** **NY MANIFEST** **1009234101**
South **ATLANTIC AVE & FLATBUSH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11201**
0.100 mi.
530 ft. **Site 1 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

NY MANIFEST:

EPA ID:	NYP000925537
Country:	USA
Location Address 1:	ATLANTIC AVE & FLATBUSH AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYNEX
Contact:	ODEL WALKER
Address:	221 EAST 37TH STREET
City/State/Zip:	NEW YORK, NY 10016
Country:	USA
Phone:	212-338-7126

Manifest:

Document ID:	MIA4134148
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	06/14/1996
Trans1 Recv Date:	06/14/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/01/1996
Part A Recv Date:	07/24/1996
Part B Recv Date:	08/01/1996
Generator EPA ID:	NYP000925537
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

K73 **ATLANTIC AVE STATION-BARCLAY CENTER** **NY Spills** **S106968135**
South **A-4 TRACK SOUTH (D,N,R LINES)** **N/A**
< 1/8 **BROOKLYN, NY**
0.100 mi.
530 ft. **Site 2 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

SPILLS:

Facility ID:	0502166
Facility Type:	ER
DER Facility ID:	292729
Site ID:	346468

ATLANTIC AVE STATION-BARCLAY CENTER (Continued) **S106968135**

DEC Region:	2
Spill Date:	5/19/2005
Spill Number/Closed Date:	0502166 / 8/7/2013
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	071913 SITE VISIT
Reported to Dept:	5/24/2005
CID:	444
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/24/2005
Spill Record Last Update:	8/7/2013
Spiller Name:	Not reported
Spiller Company:	UNKNOWN WHERE IT IS FROM
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	RACHEL KRON
Contact Phone:	(718) 243-4581
DEC Memo:	11/12/10 - spill re-assigned from Tibbe to Joe O'Connell7/11/13 - Raphael Ketani. I made a site investigation today in order to check and see whether oil was still seeping into the station. I tried to find column #344 + 40. However, there are 2 Atlantic Avenue stations in downtown Brooklyn. At first, I checked the station served by the B,Q,2,3,4,5 trains. I walked all 3 platforms, but didn't find the column. The few column numbers I did find started with "1" - as in 156 or such. However, there were no signs of oil leakage. I went over to the station served by the D,N,R trains. Once there, I met a NYCT worker who showed me where the #4 track was. However, there were no column numbers. I looked up at the ceiling over track #4 and saw two large dark areas. They appeared to be oil stains and the stains descended down the wall separating this track from the adjacent one. One stain was entirely black, but the other had orange coloration. This suggested that groundwater had also been seeping into the subway at this location. I took four pictures. I then went to the platform on the other side of this wall and saw another large dark stain which ran from the ceiling over the track and down the separating wall. I took a picture. The stain also contained some orange coloring which suggested that groundwater had also been seeping through the ceiling. At all three locations, there were no signs of current seepage. Also, at all three locations, the tracks and their beds were free of oil. There were no oil odors, either.7/19/13 - Raphael Ketani. I made an unannounced site visit to the street above the Atlantic Avenue station. I looked at both sides of 4th Avenue in the vicinity of the intersection of 4th Avenue and Pacific Street. I did not see any fill ports or vent pipes. I assumed that every store had gas service.8/7/13 - Raphael Ketani. I presented the spill case for

ATLANTIC AVE STATION-BARCLAY CENTER (Continued) **S106968135**

closure to Hassan Hussein, E.E. III and head of Unit C in Region 2. I explained to him what I had found during my inspections and that the seeping was not presently active and that the source had never been found. He gave me permission to close the spill case.As the spill had stoped flowing from wherever the source had been, and as no oil was presently impacting the public or the physical structure of the station, I determined that there was no threat to the public or the environment. Therefore, I closed the spill case effective today.

Remarks: COLUMN # 344 + 40: APPEARS TO BE COMING OUT OF THE EAST WALL AND ABOUT 20 FEET UP;

Material:

Site ID:	346468
Operable Unit ID:	1104241
Operable Unit:	01
Material ID:	584402
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K74
South
< 1/8
0.101 mi.
533 ft.

CON EDISON - MH M14737
ATLANTIC AVE & FLATBUSH AVE
BROOKLYN, NY 11217

RCRA NonGen / NLR **1008195695**
NY MANIFEST **NYP004112835**

Site 3 of 14 in cluster K

Relative:
Higher

Actual:
45 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/27/2004
Facility name:	CON EDISON - MH M14737
Facility address:	ATLANTIC AVE & FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYP004112835
Mailing address:	4 IRVING PLACE NEW YORK, NY 10003
Contact:	ANTHONY DRUMMINGS
Contact address:	4 IRVING PLACE NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	4 IRVING PLACE NEW YORK, NY 10003

CON EDISON - MH M14737 (Continued) **1008195695**

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/09/2003
Owner/Op end date: Not reported

Owner/operator name: CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address: 4 IRVING PLACE
NEW YORK, NY 10003
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/09/2003
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/26/2004
Site name: CON EDISON - MH M14737
Classification: Not a generator, verified

Date form received by agency: 02/25/2004
Site name: CON EDISON - MH M14737
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

. Waste code: B002
. Waste name: B002

. Waste code: B007
. Waste name: B007

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004112835
Country: USA

CON EDISON - MH M14737 (Continued) **1008195695**

Location Address 1: ATLANTIC & FLATBUSH MH14737
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11201
Location Zip Code 4: Not reported

Mailing Info:
Name: CONSOLIDATED EDISON
Contact: FRANKLIN MURRAY
Address: 4 IRVING PLACE RM 828
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-2808

Manifest:

Document ID: NYE0676737
Manifest Status: Not reported
Trans1 State ID: 96951JE
Trans2 State ID: Not reported
Generator Ship Date: 07/11/2003
Trans1 Recv Date: 07/11/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/11/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004112835
Trans1 EPA ID: NYD006982359
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 00200
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2003

Document ID: NYE0618057
Manifest Status: Not reported
Trans1 State ID: 46109JM
Trans2 State ID: Not reported
Generator Ship Date: 07/11/2003
Trans1 Recv Date: 07/11/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/11/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004112835
Trans1 EPA ID: NYD006982359
Trans2 EPA ID: Not reported
TSDF ID: NYD980593636
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 01907

CON EDISON - MH M14737 (Continued) **1008195695**

Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2003

K75 South < 1/8 0.101 mi. 533 ft. **MANHOLE #14737** **NY Spills** **S106014334**
ATLANTIC AVE/FLATBUSH AVE **N/A**
BROOKLYN, NY

Site 4 of 14 in cluster K

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	0301980
Facility Type:	ER
DER Facility ID:	174312
Site ID:	210275
DEC Region:	2
Spill Date:	5/25/2003
Spill Number/Closed Date:	0301980 / 9/26/2003
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	AERODRIG
Referred To:	Not reported
Reported to Dept:	5/25/2003
CID:	246
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	5/25/2003
Spill Record Last Update:	9/29/2003
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RODRIQUEZ"E2MIS 1484745-25-03 1325 HRS M. BOVE # 02203 OS CABLE DEPT REPORTS WHILE GETTING READY TO PULL CABLE FOR FUTURE FRD.1B62 INMH14737 S/S ATLANTIC AVE 80' W/O FLATBUSH AVE HE FOUND APPROX 2 GALLONS UNKNOWN OIL ON 200 GALLONS WATER. THEREWAS NO FIRE OR SMOKE AT THIS LOCATION. NO INJURIES. NO PRIVATE PROPERTY AFFECTED. HE DOES NOT SEE A SEWER CONNECTION OR SUMP AT THIS TIME, LIQUID SEEMS CONTAINED NO SEWERS OR WATERWAYS AFFECTED. HE TOOK A LIQUID SAMPLE AND REQUESTED EMERG PRIORITY FOR PCB SAMPLE RESULTS. CLEANUP PENDING SAMPLE RESULT. CHAIN OF CUSTODY # AA08906. HE PLACED E.S.TAG # 39154. NO PARKING ANYTIME (NEED BACK TO DO JOB)5/25/03=1757hrs LAB RESULT

MANHOLE #14737 (Continued) **S106014334**

RETURNED 82 PPM LSN-03-04360-0015/25/03 1800HRS INCIDENT WILL BE TAKEN OFF 24HRS DEC PROGRAM.DUE TO PCB OVER 50PPM.5/25/03 1824HRS CIG E. ELLIOT NOTIFIED OF CHANGE.5/26/03Environmental Operations crew J. Lipori, D. Williams, and H. Fernandez were assigned to clean up MH# 14373, After the Astoria tanker drained all liquids from the structure; I went down to inspect the joint for leaks. I noticed a joint regulator with oil dripping from the cap used to fill the tank; #9 was called to check the connection; while making repairs to the cap trouble shooter Herman Jones found the tubing from the tank connected to a feeder was broken; # 9 supervisor who was on location D-faulted the structure; and hung D-Fault tag# 00028. 2500 gallons of liquid, and (1) drum with PPE, and zone material was removed fromthe structure.?GENE?7/09/03 14:55 HRS. -- FAXED EPA ID REQUEST TO ERT.16:35 HRS -- RECEIVED EPA ID # NYP 004 112 835.7/10/03=1830HRS O.S. GENE WILLIAMS REPORTS NEW ENVIR TAG#30393 PLACED IN MH-14737.7/10/03 2350HRS O.S. TINO FERNANDEZ REPORTS WHILE IN PROGRESS OF CLEANUP CREW FOUND DRAIN CLOGGED CLEANED AND SEALEDDRAIN NO OIL WAS FOUND IN DRAIN.0145 HRS = 7/11/03 = ENV OPS SUPV C.FERNANDEZ REPORTS THAT 2 BARRELS OF DEBRIS WERE REMOVED FROM STRUCTURE. MANHOLE WASDOUBLE WASHED WITH BIOGEN 760. ENVIRONMENTAL TAG # 30393 AND D FAULT TAG # 00028 WERE REMOVED. ASTORIA TANKER REMOVED400 GALLONS OF LIQUID AND BARREL PICKUP IS SCHEDULED.

Remarks: 2 gal of unk oil on 200 gal water. sample taken 82/ppm cleanup is in progress

Material:

Site ID:	210275
Operable Unit ID:	869953
Operable Unit:	01
Material ID:	506464
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K76 **ATLANTIC/FLATBUSH AVES** **NY Spills** **S103272594**
South **ATLANTIC AVE/FLATBUSH AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.101 mi.
533 ft. **Site 5 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

SPILLS:

Facility ID:	9510514
Facility Type:	ER
DER Facility ID:	174312
Site ID:	320328
DEC Region:	2
Spill Date:	11/21/1995
Spill Number/Closed Date:	9510514 / 11/21/1995
Spill Cause:	Abandoned Drums

ATLANTIC/FLATBUSH AVES (Continued) **S103272594**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	11/21/1995
CID:	207
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/21/1995
Spill Record Last Update:	11/29/1995
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	FDNY
Contact Phone:	(917) 769-0483
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"CALLED FDNY, HAZMAT, CONFIRMED THAT HE 2/12 GALLON DRUMS ARE EMPTY, DEP DISPOSED OF THEM AS SOLID WASTE.
Remarks:	LITTLE INFO - FDNY RESPONDING TO LOCATION NOW

Material:

Site ID:	320328
Operable Unit ID:	1021031
Operable Unit:	01
Material ID:	357877
Material Code:	0064A
Material Name:	UNKNOWN MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K77 South < 1/8 0.101 mi. 533 ft. | **FLATBUSH TERMINAL - LIRR**
ATLANTIC AVE/FLATBUSH AVE
BROOKLYN, NY | **NY Spills** | **S106867426**
N/A

Site 6 of 14 in cluster K

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	0413358
Facility Type:	ER
DER Facility ID:	174312
Site ID:	342441
DEC Region:	2
Spill Date:	3/23/2005
Spill Number/Closed Date:	0413358 / 6/8/2005
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	3/23/2005
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/23/2005
Spill Record Last Update:	6/8/2005
Spiller Name:	PAUL MANSKI
Spiller Company:	FLATBUSH TERMINAL
Spiller Address:	ATLANTIC/FLATBUSH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	PAUL MANSKI
Contact Phone:	(516) 924-8083 CELL
DEC Memo:	06/08/05: Residual oil leaked from a deteriorated drum to a concrete loading dock. Absorbants were used to clean oil and were put in the drum, which was overpacked and disposed.
Remarks:	LESS THEN ONE GALLON LEAKED FROM A 55 GALLON DRUM, ON LOADING DOCK ON TO CONCRETE: ENVIR. CO ENROUTE TO CLEAN UP: VERY MINIMAL:

Material:

Site ID:	342441
Operable Unit ID:	1101169
Operable Unit:	01
Material ID:	581295
Material Code:	0010
Material Name:	Hydraulic Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

FLATBUSH TERMINAL - LIRR (Continued) **S106867426**

Tank Test:

K78 South < 1/8 0.101 mi. 533 ft. **MANHOLE 60650 FLATBUSH AVE/ATLANTIC AVE BROOKLYN, NY** **NY Spills** **S104285042 N/A**

Site 7 of 14 in cluster K

Relative: Higher

Actual: 45 ft.

SPILLS:

Facility ID:	0002780
Facility Type:	ER
DER Facility ID:	115384
Site ID:	134284
DEC Region:	2
Spill Date:	6/5/2000
Spill Number/Closed Date:	0002780 / 5/8/2001
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	6/5/2000
CID:	389
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/5/2000
Spill Record Last Update:	6/11/2001
Spiller Name:	UNKNOWN
Spiller Company:	UNKNOWN
Spiller Address:	UNKNOWN
Spiller City,St,Zip:	UNKNOWN, NY
Spiller Company:	999
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"DEC INSPECTOR'S NOTESCON ED E2MIS REPORT 6-05-00Found 2oz. unknown oil on 100 gal. water in MH 60650. Appears to be contained. Dead feeder visible in hole, cannot see sump due to water. Sample taken, no sewers or waterways affected.6-05-00 2115hrs.<1ppmUpdate 9-14-00 0030Env. Ops reports finding no tag in structure. Manhole cover has been replaced with a 5 section grating. He is unable to do the cleanup due to customer complaint. New tag will be installed.A. Walker Env. Supervisor reports all cables capped, hole double washed but left tag in place due to freah waster leak which brings back sheen in MH #122551-28-01 1940hrs. Cleanup completed and tag removed. Found no sump.
Remarks:	caller reporting a spill of material from unk source samples taken clean up pending lab results. coned#131722 no callback necessary

MANHOLE 60650 (Continued) **S104285042**

Material:

Site ID:	134284
Operable Unit ID:	824873
Operable Unit:	01
Material ID:	551130
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9911275
Facility Type:	ER
DER Facility ID:	247831
Site ID:	306867
DEC Region:	2
Spill Date:	12/26/1999
Spill Number/Closed Date:	9911275 / 3/28/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	COMENALE
Referred To:	Not reported
Reported to Dept:	12/26/1999
CID:	312
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	12/26/1999
Spill Record Last Update:	3/28/2002
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY 10003
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	1/2 PINT FROM LEAKING CABLE - SAMPLE TAKEN - CASE #129392

Material:

Site ID:	306867
Operable Unit ID:	1089957

MANHOLE 60650 (Continued) **S104285042**

Operable Unit:	01
Material ID:	563439
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K79 **NYCTA - A A BULK STORAGE** **RCRA-CESQG** **1000981361**
South **SE COR FLATBUSH & ATLANTIC AVE** **NY MANIFEST** **NY0000973693**
< 1/8 **BROOKLYN, NY 11217** **NJ MANIFEST**
0.101 mi.
533 ft. **Site 8 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	NYCTA - A A BULK STORAGE
Facility address:	SE COR FLATBUSH & ATLANTIC AVE BROOKLYN, NY 11217
EPA ID:	NY0000973693
Mailing address:	JAY ST ROOM 819 BROOKLYN, NY 11201
Contact:	JAMES CRANDALL
Contact address:	JAY ST ROOM 819 BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	(718) 243-4581
Contact email:	Not reported
EPA Region:	02
Land type:	Other land type
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address:	370 JAY ST ROOM 819 BROOKLYN, NY 11201

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Owner/operator country: US
Owner/operator telephone: (718) 243-4581
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address: 370 JAY ST ROOM 819
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 243-4581
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYCTA - A A BULK STORAGE
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/15/2001
Site name: NYCTA - A A BULK STORAGE
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

NYCTA - A A BULK STORAGE (Continued) **1000981361**

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 07/08/1999
Site name: NYCTA - A A BULK STORAGE
Classification: Not a generator, verified

Date form received by agency: 03/20/1996
Site name: ATLANTIC AVE STA/NYCT
Classification: Large Quantity Generator

Date form received by agency: 12/12/1994
Site name: NYCTA - A A BULK STORAGE
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/20/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

NY MANIFEST:
EPA ID: NY0000973693
Country: USA
Location Address 1: ATLANTIC AVE& FLATBUSH AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: Not reported
Location Zip Code 4: Not reported

Mailing Info:
Name: NYCTA
Contact: RICHARD DONG
Address: 370 JAY ST RM 809
City/State/Zip: BROOKLYN, NY 11201
Country: USA
Phone: 718-330-4581

Manifest:

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/30/2011
Trans1 Recv Date:	06/30/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/30/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	40.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003537078JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	03/31/2011
Trans1 Recv Date:	03/31/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/01/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	55.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Year:	2011
Manifest Tracking Num:	001055038GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/20/2011
Trans1 Recv Date:	12/20/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/20/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	55.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003636311JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	04/17/2012
Trans1 Recv Date:	04/17/2012

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/17/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	500.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008922899JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR986628162
Trans2 State ID:	Not reported
Generator Ship Date:	05/10/2013
Trans1 Recv Date:	05/10/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/10/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	24
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	000517946WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR986628162
Trans2 State ID:	Not reported
Generator Ship Date:	06/04/2013
Trans1 Recv Date:	06/04/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	20
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	000518018WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	07/11/2007
Trans1 Recv Date:	07/11/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/11/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	525
Units:	P - Pounds
Number of Containers:	3
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001033560JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	NJA5005023
Manifest Status:	Not reported
Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	07/13/2004
Trans1 Recv Date:	07/13/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/13/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00250
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NJA5075223
Manifest Status:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	04/14/2004
Trans1 Recv Date:	04/14/2004
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/14/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00200
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2004

Document ID:	NJA1969555
Manifest Status:	Completed copy
Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	02/09/1995
Trans1 Recv Date:	02/09/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/09/1995
Part A Recv Date:	/ /
Part B Recv Date:	03/02/1995
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJD982281016
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00440
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	008
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	MIA4500902
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	01/21/1998
Trans1 Recv Date:	01/21/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/04/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Trans1 EPA ID:	NYD046765574
Trans2 EPA ID:	Not reported
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01200
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	1998

Document ID:	NJA2986689
Manifest Status:	Not reported
Trans1 State ID:	NJDEPES58
Trans2 State ID:	Not reported
Generator Ship Date:	07/29/1998
Trans1 Recv Date:	07/29/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/29/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1998

Document ID:	NJA3288377
Manifest Status:	Not reported
Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	09/06/2001
Trans1 Recv Date:	09/06/2001
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/06/2001
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

TSDF ID:	NJD002200046
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	01250
Units:	P - Pounds
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2001

Document ID:	NJA2787222
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	ES5811
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1997
Trans1 Recv Date:	12/22/1997
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/22/1997
Part A Recv Date:	01/20/1998
Part B Recv Date:	01/20/1998
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00150
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1997

Document ID:	NYB8432442
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYPP5193
Trans2 State ID:	Not reported
Generator Ship Date:	04/02/1997
Trans1 Recv Date:	04/02/1997
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/02/1997
Part A Recv Date:	04/15/1997
Part B Recv Date:	05/02/1997
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1997

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Document ID:	CTF0901892
Manifest Status:	Not reported
Trans1 State ID:	AE384L
Trans2 State ID:	T73G3K
Generator Ship Date:	02/24/2000
Trans1 Recv Date:	02/24/2000
Trans2 Recv Date:	03/06/2000
TSD Site Recv Date:	03/06/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJD003812047
Trans2 EPA ID:	NJD003812047
TSDF ID:	CTD021816889
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00140
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2000

Document ID:	CTF0901925
Manifest Status:	Not reported
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	04/13/2000
Trans1 Recv Date:	04/13/2000
Trans2 Recv Date:	04/26/2000
TSD Site Recv Date:	04/26/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJD003812047
Trans2 EPA ID:	NJD003812047
TSDF ID:	CTD021816889
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2000

Document ID:	NJA2784454
Manifest Status:	Not reported
Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	06/11/1998
Trans1 Recv Date:	06/11/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/11/1998
Part A Recv Date:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJ0000027193
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1998

Document ID:	NYG0415476
Manifest Status:	Not reported
Trans1 State ID:	PP5193
Trans2 State ID:	Not reported
Generator Ship Date:	02/02/1998
Trans1 Recv Date:	02/02/1998
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/02/1998
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00600
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	1998

Document ID:	NJA1968539
Manifest Status:	Completed copy
Trans1 State ID:	S5811
Trans2 State ID:	Not reported
Generator Ship Date:	01/17/1995
Trans1 Recv Date:	01/17/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/17/1995
Part A Recv Date:	/ /
Part B Recv Date:	02/06/1995
Generator EPA ID:	NY0000973693
Trans1 EPA ID:	NJD982281016
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	01700
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	020

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00001
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

NJ MANIFEST:

EPA Id:	NY0000973693
Mail Address:	370 JAY ST
Mail City/State/Zip:	BROOKLYN 11201
Facility Phone:	7183304581
Emergency Phone:	Not reported
Contact:	Not reported
Comments:	Not reported
SIC Code:	Not reported
County:	00
Municipal:	00
Previous EPA Id:	Not reported
Gen Flag:	X
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	NJA5005023
EPA ID:	NY0000973693
Date Shipped:	07/13/2004
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/13/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/13/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	08050421
Was Load Rejected:	BROOKLYN 11201
Reason Load Was Rejected:	Not reported

Manifest Number:	003636311JJK
EPA ID:	NY0000973693
Date Shipped:	12/20/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	NYCTA-ATLANTIC AVE STATION
Transporter-1 EPA Facility Name:	CLEAN VENTURE, INC
TSDF EPA Facility Name:	CYCLE CHEM INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	12/20/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	12/20/2011
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Waste Code:	D008
Hand Code:	H111
Quantity:	55.00 Pounds

Manifest Number:	NJA5241504
EPA ID:	NY0000973693
Date Shipped:	12/08/2005
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	12/08/2005
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	12/08/2005
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	02030621
Was Load Rejected:	BROOKLYN 11201
Reason Load Was Rejected:	Not reported

Manifest Number:	NJA5075223
EPA ID:	NY0000973693
Date Shipped:	04/14/2004
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	04/14/2004
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/14/2004
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	05030422
Was Load Rejected:	BROOKLYN 11201
Reason Load Was Rejected:	Not reported

Manifest Number:	001055038GBF
EPA ID:	NY0000973693
Date Shipped:	3/31/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	NYCTA-ATLANTIC AVE STATION
Transporter-1 EPA Facility Name:	CLEAN VENTURE, INC
TSDF EPA Facility Name:	CYCLE CHEM INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Transporter-1 Date:	3/31/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/1/2011
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	55.00 Pounds

Manifest Number:	001033560JJK
EPA ID:	NY0000973693
Date Shipped:	07/11/2007
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NJ0000027193
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	07/11/2007
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	07/11/2007
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN 11201

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2007 New Jersey Manifest Data
Waste Code: D008
Hand Code: H11
Quantity: 554 P

Manifest Number: 001057631GBF
EPA ID: NY0000973693
Date Shipped: 12/03/2010
TSDF EPA ID: NJD002200046
Transporter EPA ID: NJ0000027193
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 12/03/2010
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 12/03/2010
TSDF EPA Facility Name: Not reported
QTY Units: Not reported
Transporter SEQ ID: Not reported
Transporter-1 Date: Not reported
Waste SEQ ID: Not reported
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: Not reported
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: BROOKLYN 11201
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2010 New Jersey Manifest Data
Waste Code: D008
Hand Code: H141
Quantity: 50 P

Manifest Year: 2010 New Jersey Manifest Data
Waste Code: D008
Hand Code: H111

NYCTA - A A BULK STORAGE (Continued) **1000981361**

Quantity: 300 P

Manifest Number: 003537078JJK
EPA ID: NY0000973693
Date Shipped: 6/30/2011
TSDF EPA ID: NJD002200046
Transporter EPA ID: NJ0000027193
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: Not reported
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: Not reported
Generator EPA Facility Name: NYCTA-ATLANTIC AVE STATION
Transporter-1 EPA Facility Name: CLEAN VENTURE, INC
TSDF EPA Facility Name: CYCLE CHEM INC
QTY Units: Pounds
Transporter SEQ ID: 1.00
Transporter-1 Date: 6/30/2011
Waste SEQ ID: 1.00
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: 6/30/2011
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: BROOKLYN 11201
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2011 New Jersey Manifest Data
Waste Code: D008
Hand Code: H111
Quantity: 40.00 Pounds

K80
South
< 1/8
0.101 mi.
533 ft.

MTA LIRR - FLATBUSH TERMINAL
ATLANTIC & FLATBUSH AVE
BROOKLYN, NY 11217

Site 9 of 14 in cluster K

RCRA-CESQG

1006817524
NYR000116426

Relative:
Higher

Actual:
45 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	MTA LIRR - FLATBUSH TERMINAL
Facility address:	ATLANTIC & FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYR000116426
Mailing address:	183RD ST DEPT 3147 HOLLIS, NY 11423
Contact:	WILLIAM P KEENAN
Contact address:	183RD ST DEPT 3147 HOLLIS, NY 11423
Contact country:	US
Contact telephone:	(718) 558-3081
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	LONG ISLAND RAILROAD
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1850
Owner/Op end date:	Not reported
Owner/operator name:	MTA LIRR
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1968
Owner/Op end date:	Not reported

MTA LIRR - FLATBUSH TERMINAL (Continued) **1006817524**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	MTA LIRR - FLATBUSH TERMINAL
Classification:	Conditionally Exempt Small Quantity Generator
Date form received by agency:	06/20/2003
Site name:	MTA LIRR - FLATBUSH TERMINAL
Classification:	Small Quantity Generator
. Waste code:	D008
. Waste name:	LEAD
Violation Status:	No violations found

K81 **NYNEX** **NY MANIFEST** **1009234605**
South **FLATBUSH AVE & ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.101 mi.
533 ft. **Site 10 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

NY MANIFEST:

EPA ID:	NYP000933275
Country:	USA
Location Address 1:	FLATBUSH AVE & ATLANTIC AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYNEX
Contact:	V. ORCHIER
Address:	221 E 37TH ST
City/State/Zip:	NEW YORK, NY 10016
Country:	USA
Phone:	212-338-7126

Manifest:

Document ID:	MIA4512899

NYNEX (Continued) **1009234605**

Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	02/03/1997
Trans1 Recv Date:	02/03/1997
Trans2 Recv Date:	02/11/1997
TSD Site Recv Date:	02/20/1997
Part A Recv Date:	/ /
Part B Recv Date:	03/10/1997
Generator EPA ID:	NYP000933275
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1997

K82
South
< 1/8
0.101 mi.
533 ft.

MTA NYCT - A A COMPLEX **RCRA NonGen / NLR** **1004762027**
ATLANTIC & FLATBUSH AVE **NYR000092809**
BROOKLYN, NY 11217

Site 11 of 14 in cluster K

Relative:
Higher

Actual:
45 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	MTA NYCT - A A COMPLEX
Facility address:	ATLANTIC & FLATBUSH AVE CARLTON YARD BROOKLYN, NY 11217
EPA ID:	NYR000092809
Mailing address:	BROADWAY 2ND FLOOR NEW YORK, NY 10004
Contact:	WILLIAM JEHLE
Contact address:	BROADWAY 2ND FLOOR NEW YORK, NY 10004
Contact country:	US
Contact telephone:	(646) 252-3500
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MTA NEW YORK CITY TRANSIT
Owner/operator address:	2 BROADWAY 2ND FLOOR NEW YORK, NY 10004
Owner/operator country:	US
Owner/operator telephone:	(646) 252-3500
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

MTA NYCT - A A COMPLEX (Continued) **1004762027**

Owner/operator name: MTA NEW YORK CITY TRANSIT
Owner/operator address: 2 BROADWAY 2ND FLOOR
NEW YORK, NY 10004
Owner/operator country: US
Owner/operator telephone: (646) 252-3500
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: MTA NYCT - A A COMPLEX
Classification: Not a generator, verified

Date form received by agency: 12/14/2000
Site name: MTA NYCT - A A COMPLEX
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

K83 **LONG ISALND RAILROAD** **NY Spills** **S107409354**
South **ATLANTIC AVE/FLATBUSH AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.101 mi.
533 ft. **Site 12 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

SPILLS:
Facility ID: 0507923
Facility Type: ER
DER Facility ID: 174312
Site ID: 353427
DEC Region: 2
Spill Date: 10/3/2005
Spill Number/Closed Date: 0507923 / 12/29/2005

LONG ISALND RAILROAD (Continued) **S107409354**

Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	10/3/2005
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/3/2005
Spill Record Last Update:	12/29/2005
Spiller Name:	LEWIS WUNDERLICH
Spiller Company:	LONG ISALND RAILROAD
Spiller Address:	ATLANTIC/FLATBUSH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	LEWIS WUNDERLICH
Contact Phone:	(516) 369-4889 CELL #
DEC Memo:	Sangesland spoke to Lew Wunderlich about the spill. Spill was to the platform, most was captured, small amount went down onto the tracks.Close out paperwork will be forwarded to DEC "Soon"Fax "closure report" (1 page) was sent to DEC - closed
Remarks:	POLYPROPERLE GYCOL- 30% SOULTION: SPILLED ON A PLATFORM: BEING CLEANED UP

Material:

Site ID:	353427
Operable Unit ID:	1110887
Operable Unit:	01
Material ID:	2100928
Material Code:	0043A
Material Name:	ANTIFREEZE
Case No.:	Not reported
Material FA:	Other
Quantity:	15
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

F84 NNW < 1/8 0.102 mi. 540 ft. | **MANHOLE 1836**
FULTON ST & ST FELIX ST
BROOKLYN, NY | **NY Spills** | **S103574070**
N/A

Site 10 of 10 in cluster F

Relative: Lower

Actual: 38 ft.

SPILLS:

Facility ID:	9809994
Facility Type:	ER
DER Facility ID:	58965
Site ID:	60385
DEC Region:	2
Spill Date:	11/9/1998
Spill Number/Closed Date:	9809994 / 11/7/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	CAENGELH
Referred To:	Not reported
Reported to Dept:	11/9/1998
CID:	211
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/9/1998
Spill Record Last Update:	11/7/2002
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	STEPHEN CRIBBEN
Contact Phone:	(212) 580-6763
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ENGELHARDT"E2MIS NOTES 12113811/09/98 11:20 HRS -- TINO FERNANDEZ #56150, O/S WITH ENV. OPS., REPORTS AT 11:00 FOUND APPROX 1 PT. OIL LEAKED FROM FEEDER JOINTONTO DIRT IN MH-1836 (S/S FULTON ST., 50' W/O ST. FELIX ST.). SPILL CONTAINED, NO SUMP OR DRAIN IN HOLE, AND NO SEWERS ORWATERWAYS AFFECTED. ONE LIQUID SAMPLE OF OIL TAKEN FROM JOINT, SENT TO CHEM. LAB ON A 4-6 HOUR PRIORITY TURNAROUND. ENV.STOP TAG #21650 INSTALLED. U/G SUPERVISOR INSTALLED D-FAULT TAG #386. NOTIFIED S. CRIBBIN OF C.I.G. AT 12:09. *** W.W. #17344 ***---11/9/98--2105--SAMPLE RETURNED 5.PPM LAB SEQ#98-12311--G DONATONEUPDATE: 11/10/98 - 1400J. LIPORI - 11179 - ENV. OPS., REPORTS U/G REPAIRED D-FAULT 5 PPM CLEANUP COMPLETE WITH SLIX AND TAG #21650 REMOVED. INCIDENT ISCLOSED.
Remarks:	LEAK FROM FEEDER JOINT / 1 PINT OF PRODUCT ON DIRT IN MANHOLESAMPLE TAKEN AND CLEAN UP PENDING RESULTS - CON ED # 121138

Material:

Site ID:	60385
Operable Unit ID:	1067265
Operable Unit:	01

MANHOLE 1836 (Continued) **S103574070**

Material ID:	313882
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

H85 **EDR US Hist Auto Stat** **1015299992**
SSW **20 4TH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.102 mi.
541 ft. **Site 6 of 7 in cluster H**

Relative:
Lower

Actual:
42 ft.

EDR Historical Auto Stations:

Name:	PACIFIC CAR & LINOUSINE INC
Year:	2004
Address:	20 4TH AVE
Name:	PACIFIC EXPRESS CAR & LIMO SERVICE
Year:	2011
Address:	20 4TH AVE
Name:	PACIFIC EXPRESS CAR & LIMO SERVICE
Year:	2012
Address:	20 4TH AVE

J86 **ISLAMIC BROTHERHOOD, INC** **NY AST** **U004125666**
WSW **552 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.104 mi.
550 ft. **Site 2 of 7 in cluster J**

Relative:
Lower

Actual:
40 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-610927
Program Type:	PBS
UTM X:	586237.44405000005
UTM Y:	4504264.0273000002
Expiration Date:	10/07/2013
Site Type:	Other

Affiliation Records:

Site Id:	403541
Affiliation Type:	Facility Owner
Company Name:	ISLAMIC BROTHERHOOD, INC
Contact Type:	ATTY
Contact Name:	TARIK DAVIS

ISLAMIC BROTHERHOOD, INC (Continued) **U004125666**

Address1:	552 ATLANTIC AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 855-9474
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	9/25/2008

Site Id:	403541
Affiliation Type:	Mail Contact
Company Name:	Not reported
Contact Type:	Not reported
Contact Name:	TARIK DAVIS
Address1:	26 COURT STREET SUITE 603
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11242
Country Code:	001
Phone:	(718) 783-6819
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/7/2008

Site Id:	403541
Affiliation Type:	On-Site Operator
Company Name:	ISLAMIC BROTHERHOOD, INC
Contact Type:	Not reported
Contact Name:	TARIK DAVIS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 855-9474
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/4/2008

Site Id:	403541
Affiliation Type:	Emergency Contact
Company Name:	ISLAMIC BROTHER , INC
Contact Type:	Not reported
Contact Name:	TARIK DAVIS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001

ISLAMIC BROTHERHOOD, INC (Continued) **U004125666**

Phone:	(718) 855-9474
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/4/2008

Tank Info:

Tank Number:	001
Tank Id:	224987
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I03 - Overfill - Automatic Shut-Off
K00 - Spill Prevention - None
H03 - Tank Leak Detection - Vapor Well
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	06/27/2005
Capacity Gallons:	3000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	06/21/2008
Register:	True
Modified By:	MSBAPTIS
Last Modified:	10/07/2008
Material Name:	#2 Fuel Oil (On-Site Consumption)

J87 **MOSQUE** **NY Spills** **S109063554**
WSW **552-554 ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.104 mi.
550 ft. **Site 3 of 7 in cluster J**

Relative:
Lower

Actual:
40 ft.

SPILLS:

Facility ID:	0802555
Facility Type:	ER
DER Facility ID:	348054
Site ID:	398707
DEC Region:	2
Spill Date:	6/5/2008
Spill Number/Closed Date:	0802555 / 10/9/2008
Spill Cause:	Other
Spill Class:	Not reported

MOSQUE (Continued) **S109063554**

SWIS:	2401
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	6/5/2008
CID:	444
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/5/2008
Spill Record Last Update:	10/9/2008
Spiller Name:	NYSHAZMAT
Spiller Company:	MOSK - CHURCH
Spiller Address:	552 ATLANTIC AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	NYSHAZMAT
Contact Phone:	(347) 203-6886
DEC Memo:	06/06/08-Hiralkumar Patel. visited site yesterday (06/05/08) at 4:45 PM. its six story commercial building. met with building owner Mr. Awad. Mr. Awad mentioned that they are converting to gas heating system and are removing 3000 gal #2 oil tank (which found unregistered). Mr. Awad hired P&T Home Improvement for required work and P&T hired PBG Construction to remove tank. Marvin from PBG removed leftover oil from tank and to remove sludge from bottom, he was cutting piece of tank using torch and fire broke out.FDNY extinguished fire and due to oil fumes/smoke inside building, they cut power supply.found oil/water mix inside tank and boiler room inside basement. as per Marvin tank is sitting on floor along foundation wall along Atlantic ave. and boiler is about 15-20 ft away from tank. fill/vent pipes running aboveground and found no sign of leak under these pipes. no information about supply/return lines as area around tank and boiler was flooded with oil/water and as no power in basement. owner sealed fill port.NYC DOB Boiler division ordered to evacuate the building until they perform safety inspection of the site. Mr. Falnnery from Boiler division asked owner to hire another contractor and asked not to allow PBG construction again for futher work (tank removal).at the end of site visit, Boiler division asked owner to pump out oil/water from basement only, so they can perform safety inspection. NYC DOB Boiler division don't want any other work performed inside building until they inspect the building. tank must be removed once DOB inspect the site and approves further work.visited site this morning (06/06/08). met with Ali, member of owner's corp. they hired Recovery Environmental. met Tom from Recovery environmental. asked him to remove oil/water only from tank/boiler room and to notify the department once they done. Tom will either collect oil/water into drums and store in building for later disposal or will collect it into vacuum truck.received call from Tom. he mentioned that there is a water leak from main water line inside boiler room. Tom requested to turn off water supply. spoke with Ali. he asked for help to have water supply turned off. spoke with Garcia (212-689-1520) at NYC DEP. he asked to contact

MOSQUE (Continued) **S109063554**

Jemmy (718-391-7610/7615), incharge of boiler division in brooklyn area. spoke with Jemmy. he will send crew after 4 PM, as other crew members are busy.NYPD is at site since 8 PM yesterday night to secure the site.met Mr. Thein from OSHA at the site.Islamic Brotherhood INc. **property owner**Amin AwadPresident265 Flatbush Avenue, Apt. 2Brooklyn, NY 11217PH. (718) 857-6311Omar AliTresurer of Islamic Brotherhood INc.PH. (718) 469-4204Jesus Morales **owner's insurance company**Jesco BrokeragePH. (718) 499-2777P&T Home Improvement **contractor hired by property owner**Waverly PalmerPh. (917) 676-4876PBG Construction **sub-contractor hired by P&T home improvement, who was cutting tank.**Marvin ParsleyPh. (718) 322-8108 (O) (718) 413-8872 (C)John FlanneryBadge #: 2234NYC DOBBoiler DivisionPH. (212) 566-3839/5433/4916Tom CuricaNYC DOBERTPh. (212) 566-3415Todd HassoldRecovery EnvironmentalPh. (973) 940-3144 (O) (973) 896-6185 (C)Fax (973) 940-3146email: thassold@recoverysrvs.comThomas DomkeRecovery Environmental Services Inc.Ph. (973) 896-0895email: tdomke@recoverysrvs.comJerryRecovery Environmental Services Inc.Ph. (732) 208-2306Ali Mugbelmember of boardPh. (718) 344-2103 (C)Mercedes **NYPD officer whom met during visit on 06/06/08.**NYPDPh. (718) 915-4354Kyaw TheinIndustrial HygienistOSHAPh. (212) 620-3200Fax (212) 620-4121email: thein.kyaw@dol.govno PBS.discussed with DEC Austin. Austin asked to visit site only after DOB boiler division gives ok after their safety inspection.06/09/08-Hiralkumar Patel. visited site. met Tom from Recovery environmental. they removed all stuff from tank/boiler room. walked into boiler and tank room and found both room floors in good condition. no cracks noticed. no odors noticed during site visit. Tom mentioned that they pumped out total 1500 gal of oil/water from tank room, boiler room as well as from tank itself. as per Tom, tank had oil in it and 6-8 inches thick sludge at the bottom. asked Tom to seal all drums which are filled with contaminated material and asked to wait for DOB inspection prior to powerwash.visited site at 2 PM. met Mr. Awad at site. he mentioned that inspector from NYC DOB boiler division inspected site before i reached to the site and DOB gave them ok to occupy the building again. gave Mr. Awad PBS registration form and asked him to register tank prior to any tank removal. met Mr. Anton, insurance adjuster. informed him the same.Joseph AntonAnton Adjustment Co., Inc.Ph. (718) 641-5700 (O) (516) 624-0541 (C)Fax (718) 641-569106/10/08-Hiralkumar Patel. discussed with DEC Austin and DEC Vought regarding investigation under tank, once tank removed. Austin mentioned that as no cracks found in floor anywhere else in tank and boiler room, he believes that tank must have installed on solid concrete and he doesn't believe any cracks in floor. DEC Austin asked to close the case once gets tank registered.06/17/08-Hiralkumar Patel. received cleanup report from Recovery environmental.06/24/08-Hiralkumar Patel. spoke with Mr. Awad about tank registration. he mentioned that tank has been removed from site and he doesn't know company's name who removed the tank. Mr. Awad asked to contact Omar Ali.spoke with Todd at Recovery environmental. he didn't removed tank. 06/25/08-Hiralkumar Patel. visited site. tank has been removed. inspected visible area only in tank room (as no light in tank room) and found floor in good condition. no odors noticed.received call from Ali. asked him to register tank. sent email to Ali (ahmedels@hotmail.com) with PBS form and instruction. spoke with Marvin from PBG construction, who removed the tank. this is the same company who was cutting tank when fire broke out. Mrvin mentioned that NYC DOB allowed them to remove tank

MOSQUE (Continued) **S109063554**

(NYC DOB asked them not to enter into building again for tank removal after fire incident).06/27/08-Hiralkumar Patel. received call from Mr. Davis, attorney representing property owner. explained him to register tank. asked him to provide PBS number to close the case.Tarik Davis **owner's attorney**Ph. (718) 783-6819email: swatgus@msn.com07/11/08-Hiralkumar Patel. received call from Abraham from mosque regarding tank registration. asked him to contact DEC Jacob with tank questions.08/20/08-Hiralkumar Patel. discussed with DEC Austin and DEC Jacob regarding unregistered tank. both agreed to issue Notice of Violation.visited site. met Mr. Awad at the site at 3:30 PM. issued Notice of Violation. Mr. Awad refused to sign NOV. left white copy of NOV to the site. settlement conference has been set for 09/25/08 at 10:30 AM.08/27/08-Hiralkumar Patel. received message from Jerry from recovery environmental. spoke with Jerry at recovery environmental. he was contacted by mosque and claimed that further cleanup required by the department. explained to Jerry that the department requires registration of previous tank and thats why the department issued a notice of violation. and this is not regarding spill cleanup. Jerry will talk to mosque people.10/09/08-Hiralkumar Patel. found tank registration for the site. PBS #L: 2-610927.case closed.

Remarks: 10- 55 GALLONS IN BARRELS AND MIXED WITH WATER AND WHILE SPLITTING TH TANK CAUGHT FIRE: SCENE UNDERCONTROL

Material:

Site ID:	398707
Operable Unit ID:	1155580
Operable Unit:	01
Material ID:	2146457
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

K88 **BTWN 4TH & 5TH AV'S** **NY Spills** **S104651766**
South **ATLANTIC AVE** **N/A**
< 1/8 **BROOKLYN, NY**
0.107 mi.
565 ft. **Site 13 of 14 in cluster K**

Relative:
Higher

Actual:
45 ft.

SPILLS:

Facility ID:	0000484
Facility Type:	ER
DER Facility ID:	159853
Site ID:	166736
DEC Region:	2
Spill Date:	4/12/2000
Spill Number/Closed Date:	0000484 / 7/10/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response.

BTWN 4TH & 5TH AV'S (Continued) **S104651766**

	Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	4/12/2000
CID:	312
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/12/2000
Spill Record Last Update:	7/10/2002
Spiller Name:	Not reported
Spiller Company:	NYC TRANSIT
Spiller Address:	370 JAY ST
Spiller City,St,Zip:	BROOKLYN, NY 11201-
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"NOT ASSIGNED UNTIL 4/5/01. SPILLED CLEANED AND NO SEWERS IMPACTED. Spill on asphalt.
Remarks:	BROKEN FUEL LINE ON A BUS - CLEANED UP

Material:

Site ID:	166736
Operable Unit ID:	822153
Operable Unit:	01
Material ID:	288731
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	30
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

L89 **EDR US Hist Cleaners** **1015085976**
ENE **666 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.107 mi.
565 ft. **Site 1 of 13 in cluster L**

Relative:
Higher

Actual:
55 ft.

EDR Historical Cleaners:

Name:	FULTON ONE LAUNDROMAT INC
Year:	2001
Address:	666 FULTON ST

(Continued) **1015085976**

Name: FULTON ONE LAUNDROMAT INC
Year: 2002
Address: 666 FULTON ST

Name: FULTON ONE LAUNDROMAT INC
Year: 2003
Address: 666 FULTON ST

M90 **SCHERMERHORN ST AT 3RD** **NY Spills** **S103485230**
WNW **SCHERMERHORN ST AT 3RD A** **N/A**
< 1/8 **BROOKLYN, NY**
0.108 mi.
568 ft. **Site 1 of 11 in cluster M**

Relative:
Lower

Actual:
39 ft.

SPILLS:

Facility ID:	9808619
Facility Type:	ER
DER Facility ID:	235761
Site ID:	291146
DEC Region:	2
Spill Date:	10/12/1998
Spill Number/Closed Date:	9808619 / 10/25/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	10/12/1998
CID:	371
Water Affected:	Not reported
Spill Source:	Major Facility (MOSF) > 400,000 gal
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/12/1998
Spill Record Last Update:	10/25/2002
Spiller Name:	RICHARD
Spiller Company:	CON ED
Spiller Address:	4 IRVING PLACE
Spiller City,St,Zip:	NEW YORK, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "O'CONNELL"Con Ed e2mis #120465:09.05 10/12/98 J.COLLINS #50955 J.COLLINS REPORTED A RADIATOR HOSE BROKE SPILLING 1 1/2 GAL OF ANTIFREEZE IN STREET AT 3 AVE. AND SCHERMERHORN ST. 5' SQ.AREA AFFECTED. CONTAINED. NO SEWERS OR WATERWAYS AFFECTED. CLEAN UP IN PROGRESS.11:05 CLEAN UP DELAYED DUE TO WAITING FOR TOW TRUCK TO MOVE CABLE TRUCK.UPDATE 14:00HRS CLEANUP COMPLETED WITH DIAPERS AND ABSORBANT AT 14:00HRS.
Remarks:	con ed spill 120465 -- clean up in progress and expected to becomplete.

SCHERMERHORN ST AT 3RD (Continued) **S103485230**

Material:

Site ID:	291146
Operable Unit ID:	1066036
Operable Unit:	01
Material ID:	316114
Material Code:	0043A
Material Name:	ANTIFREEZE
Case No.:	Not reported
Material FA:	Other
Quantity:	1
Units:	Gallons
Recovered:	Yes
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

M91
WNW
< 1/8
0.109 mi.
576 ft.

LOT 9,TAXBLOCK 174
370 SCHERMERHORN STREET
BROOKLYN, NY

NY E DESIGNATION **S117676621**
N/A

Site 2 of 11 in cluster M

Relative:
Lower

Actual:
39 ft.

E DESIGNATION:

Tax Lot(s):	9
Tax Block:	174
Borough Code:	Not reported
E-No:	E-124
Effective Date:	6/28/2004
Satisfaction Date:	Not reported
Ceqr Number:	03DME016K
Ulurp Number:	040171 ZMK
Zoning Map No:	12d,16c
Description:	Underground Gasoline Storage Tanks* Testing Protocol.
Lot Remediation Date:	Not reported
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

M92
NW
< 1/8
0.109 mi.
577 ft.

CON EDISON SERVICE BOX: 26611
3RD AVE & FLATBUSH AVE
BROOKLYN, NY 11217

RCRA NonGen / NLR **1016973329**
NY MANIFEST **NYP004471272**

Site 3 of 11 in cluster M

Relative:
Lower

Actual:
39 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/19/2014
Facility name:	CON EDISON SERVICE BOX: 26611
Facility address:	3RD AVE & FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYP004471272
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003

CON EDISON SERVICE BOX: 26611 (Continued) **1016973329**

Contact:	THOMAS TEELING
Contact address:	Not reported
	Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/19/2014
Site name:	CON EDISON SERVICE BOX: 26611
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004471272
Country:	USA
Location Address 1:	3RD AVE & FLATBUSH AVE
Location Address 2:	SB 26611
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE - 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193

CON EDISON SERVICE BOX: 26611 (Continued) **1016973329**

Trans2 State ID:	Not reported
Generator Ship Date:	03/19/2014
Trans1 Recv Date:	03/19/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004471272
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	011694145JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

M93 **MH 2862 HAS OIL AND EARTHEN SUMP** **NY Spills** **S109205725**
NW **FLATBUSH & THIRD AVENUES** **N/A**
< 1/8 **BROOKLYN, NY**
0.109 mi.
577 ft. **Site 4 of 11 in cluster M**

Relative:
Lower

Actual:
39 ft.

SPILLS:

Facility ID:	0803632
Facility Type:	ER
DER Facility ID:	349682
Site ID:	400398
DEC Region:	2
Spill Date:	6/26/2008
Spill Number/Closed Date:	0803632 / 8/27/2008
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	gdbreen
Referred To:	Not reported
Reported to Dept:	6/27/2008
CID:	81
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported

MH 2862 HAS OIL AND EARTHEN SUMP (Continued) **S109205725**

Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/27/2008
Spill Record Last Update:	8/27/2008
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERTSDESK
Contact Phone:	(212) 580-8383
DEC Memo:	08/27/08 - See eDocs for Con Ed report detailing cleanup and closure.212152. see eDocs
Remarks:	spill is 1 pint, earthen sump in manhole. No to all five questions. ref nmbr 212152

Material:

Site ID:	400398
Operable Unit ID:	1157226
Operable Unit:	01
Material ID:	2148243
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

L94 **EDR US Hist Cleaners** **1015086055**
ENE **668 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.110 mi.
581 ft. **Site 2 of 13 in cluster L**

Relative:
Higher

Actual:
56 ft.

EDR Historical Cleaners:

Name:	BIG APPLE CLEANERS
Year:	2010
Address:	668 FULTON ST
Name:	YES CLEANERS
Year:	2011
Address:	668 FULTON ST
Name:	YES CLEANERS
Year:	2012
Address:	668 FULTON ST

M95 WNW < 1/8 0.111 mi. 585 ft. | **CONSOLIDATED EDISON**
TM0004-54TH ST CORNER-3RD AVE
BROOKLYN, NY 12201 | **NY MANIFEST** | **1009238420**
N/A

Site 5 of 11 in cluster M

Relative: Lower

Actual: 39 ft.

NY MANIFEST:

EPA ID:	NYP004048427
Country:	USA
Location Address 1:	TM0004-54TH ST CORNER-3RD AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	12201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLIN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	NYE0244484
Manifest Status:	Not reported
Trans1 State ID:	80336AB
Trans2 State ID:	Not reported
Generator Ship Date:	01/13/2000
Trans1 Recv Date:	01/13/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/17/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004048427
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	05131
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	022
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2000

Document ID:	NYE0441387
Manifest Status:	Not reported
Trans1 State ID:	31877AJ
Trans2 State ID:	Not reported
Generator Ship Date:	01/13/2000
Trans1 Recv Date:	01/13/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/14/2000
Part A Recv Date:	Not reported

CONSOLIDATED EDISON (Continued) **1009238420**

Part B Recv Date:	Not reported
Generator EPA ID:	NYP004048427
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	02909
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2000

Document ID:	NYE0439182
Manifest Status:	Not reported
Trans1 State ID:	80680AE
Trans2 State ID:	Not reported
Generator Ship Date:	01/13/2000
Trans1 Recv Date:	01/13/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/17/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004048427
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	01630
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	009
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2000

Document ID:	NYE0407952
Manifest Status:	Not reported
Trans1 State ID:	31877AJ
Trans2 State ID:	Not reported
Generator Ship Date:	01/12/2000
Trans1 Recv Date:	01/12/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/12/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004048427
Trans1 EPA ID:	NYD006982359
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	06536
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001

CONSOLIDATED EDISON (Continued) **1009238420**

Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2000

M96 **ROADWAY** **NY Spills** **S114561401**
WNW **3RD AVE BETWEEN 20 21 ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.111 mi.
585 ft. **Site 6 of 11 in cluster M**

Relative:
Lower

Actual:
40 ft.

SPILLS:

Facility ID:	1308057
Facility Type:	ER
DER Facility ID:	443831
Site ID:	488767
DEC Region:	2
Spill Date:	11/7/2013
Spill Number/Closed Date:	1308057 / 11/7/2013
Spill Cause:	Traffic Accident
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	11/7/2013
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/7/2013
Spill Record Last Update:	11/7/2013
Spiller Name:	Not reported
Spiller Company:	US FOOD SERVICE
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	COLE ARGRAZES
Contact Phone:	Not reported
DEC Memo:	DEC Pipe rpsoke wwith Cole. a traffic accident caused 50 gal of diesel to spill from saddle tank to raodway. No sewers or drains affected. Contractor en route for cleanup. Spill closed.
Remarks:	spill to paved roadway/clean up crew en route

Material:

Site ID:	488767
Operable Unit ID:	1238370
Operable Unit:	01
Material ID:	2238292
Material Code:	0008
Material Name:	Diesel

ROADWAY (Continued) **S114561401**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

G97 **CITGO** **NY LTANKS** **S100879265**
North **620 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.112 mi.
592 ft. **Site 3 of 4 in cluster G**

Relative:
Lower

Actual:
39 ft.

LTANKS:

Site ID:	286346
Spill Number/Closed Date:	8911007 / 1/14/2004
Spill Date:	2/19/1990
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	WXSUN
Referred To:	Not reported
Reported to Dept:	2/19/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/1/1990
Spill Record Last Update:	7/19/2005
Spiller Name:	Not reported
Spiller Company:	CITGO
Spiller Address:	Not reported
Spiller City,St,Zip:	NN
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	233501
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"02/19/90: TO RETEST.10/23/03 PBS #2-479888 indicates 13 X 550gal USTs removed on 3/1/94.12/29/2003 Reassigned from Sullivan to Sun.Also refer to Spill # 93-13579 for this site.1/14/2004 This spill is closed. To be investigated and remediated under Spill #93-13579.
Remarks:	6-550'S MANIFOLDED -.096GPH

CITGO (Continued) **S100879265**

Material:

Site ID:	286346
Operable Unit ID:	936515
Operable Unit:	01
Material ID:	440555
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	286346
Spill Tank Test:	1536780
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	288263
Spill Number/Closed Date:	9313579 / 4/21/2006
Spill Date:	2/18/1994
Spill Cause:	Tank Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	6/29/2004
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	WXSUN
Referred To:	Not reported
Reported to Dept:	2/18/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	2/22/1994
Spill Record Last Update:	9/18/2006
Spiller Name:	561-818-5751
Spiller Company:	RENDEL FORBES - OWNER
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported

CITGO (Continued) **S100879265**

Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 233501
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"3/11/03 - SAMUEL- File available in active unassigned spill files.1/14/2004 Reassigned from O'Dowd to Sun.Also refer to Spill # 8911007 for this site.01/22/04 Sun sent a letter to Rendel Forbes, the Respondent requiring the following: 1) A subsurface investigation to adequately characterize site hydrogeology and to completely delineate the full extent of petroleum contamination both on-site and off-site must be performed. The investigation at a minimum must include installation of borings/well: south of MW-DG in the vicinity of sidewalk of Fulton Street about mid-point between MW-UPG and MW-D, 2) Re-sample the two previously installed wells, and 3) A surrounding property sketch.06/4/04 Letter from Andrew Rudko of AKRF to Joe Sun of DEC with an attachment of subsurface investigation report: The investigation revealed that elevated levels of VOCs were detected in the soil sample collected from the groundwater interface, sample MW-DG (35'-37'). Low levels of SVOCs were detected below the NYSDEC TAGM 4046 Recommended Soil Cleanup Objectives. NO VOCs or SVOCs were detected in the sample from MW-UG. Elevated level of VOCs were detected in MW-DG above the NYSDEC groundwater quality standards. NO SVOCs were detected in MW-DG. Based on the test results, MW-DG had BTEX concentration of 14,710 ug/l, including 130 ug/l of Benzene concentration, 2300 ug/l of Ethylbenze concentration, 680 ug/l of Toluene concentration, 3700 ug/l of o-Xylene concentration and 7900 ug/l of m&p-Xylene concentration. The above concentrations are in excess of NYSDEC Water Quality standards.06/25/04-File Update by Sun: On 06/22/04 Sun sent a letter and Stipulation Agreement to Rendel Forbes, the property owner requiring complete delineation of soil and groundwater contamination, submittal of an Investigation Summary Report followed by a Remedial Action Plan. The Department set a deadline of July 13, 2004 for signing the Stipulation Agreement by the Respondent.07/21/04-File Update by Sun: Om 07/21/04 Sun sent a letter to Rendle Forbes (Property Owner) and Andrew Rudko (Consultant with AKRF) informing them that the Department has reviewed and approved the remediation method proposed by AKRF, dated June 4, 2004. The Department approves the use of the Oxygen Release Compound (ORC) bioremediation technology for the remediation of the contaminated groundwater in the area of the former gasoline tanks. 12/19/05-File Update by Sun: AKRF submitted a letter report dated 10/17/05. The report indicated that Oxygen REleasing Compound (ORC) was injected into the spill area in August/September 2004. THe two wells on the site were sampled on 9/25/05 following low-flow sampling procedures. No gasoline-related compounds were detected in the upgradient we (MWUPG). Concentrations of gasoline-related compounds in the downgradient well (MWDG) have declined since the baseline sampliong was performed in April 2004. Analytical results of MWDG well showed the following concentrations: ND (benzene), 1400 ug/l (ethylbenzene), 38 ug/l toluene). 130 ug/l (o-xylene), 1000 ug/l (m, p-xylene), 120 ug/l (naphthalene), ND (MTBE), 400 ug/l (n-propylbenzene), 940 ug/l (sec-butylbenzene), 110 ug/l (1,3,5-triethylbenzene), 1100 ug/l (1,2,4-triethylbenzene), 350 ug/l (n-butylbenzene).
(Sun)12/28/05-Sun: Sun received a letter report dated 12/27/05 from AKRF. The report is based on the samples taken on 12/4/2005.
(sun)02/21/06-Sun: On 02/17/06, Sun received a report from AKRF for

CITGO (Continued) **S100879265**

assessment of potential impacts of the residual groundwater contamination on the 620 Fulton Street on the adjacent subway tunnels. Review of this report is pending. (Sun)04/21/06-Sun: A NFA letter was issued based on assessment of potential impacts of the residual groundwater contamination, performed by AKRF in their letters dated 02/17/06 and 03/15/06. The NFA was based on the following: 1)The gasoline tanks and all associated gasoline-impacted soil down to a depth of 22 feet below grade were removed in 1994; 2)Groundwater contamination in the source area under the former tank location has now been significantly reduced. Overall concentrations have been reduced by about 90 percent; 3) Groundwater is at a depth of 37 feet below grade within a dense glacial till with low permeability. There is a subway line directly to the west of the site which further restricts any groundwater movement off-site. 4) The residual concentrations are much too low to have any impact on the adjacent subways; and 5) For totalm.o.and p-xylene, the DEC Div. of Air Resource Short-term Guidance Concentration (SGC)is 4300 ug/m3, which is over ten times the estimated maximum concentration (340 ug/m3) in the tunnel. (Sun)

Remarks: SOIL FOUND IN TANK PULLS 13 TANKS HAVE BEEN PULLED - TO STOCK PILE SOIL -

Material:

Site ID:	288263
Operable Unit ID:	992048
Operable Unit:	01
Material ID:	388955
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

G98 **NATSAM CORP** **NY UST** **U001840958**
North **620 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.112 mi.
592 ft. **Site 4 of 4 in cluster G**

Relative:
Lower

Actual:
39 ft.

UST:

Id/Status:	2-479888 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	02/02/1995
UTM X:	586415.17090000003
UTM Y:	4504556.6950099999
Site Type:	Other

Affiliation Records:

NATSAM CORP (Continued) **U001840958**

Site Id:	21390
Affiliation Type:	Facility Owner
Company Name:	FORBES, RENDEL
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3 OAK TREE LANE
Address2:	Not reported
City:	SANDS POINT
State:	NY
Zip Code:	11050
Country Code:	001
Phone:	(516) 883-0413
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	12/16/2004

Site Id:	21390
Affiliation Type:	Mail Contact
Company Name:	FORBES, RENDEL
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	3 OAK TREE LANE
Address2:	Not reported
City:	SANDS POINT
State:	NY
Zip Code:	11050
Country Code:	001
Phone:	(516) 883-0413
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	12/16/2004

Site Id:	21390
Affiliation Type:	On-Site Operator
Company Name:	NATSAM CORP
Contact Type:	Not reported
Contact Name:	MICHAEL KISIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-1062
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	21390
Affiliation Type:	Emergency Contact
Company Name:	FORBES, RENDEL
Contact Type:	Not reported
Contact Name:	RENDEL FORBES
Address1:	Not reported

NATSAM CORP (Continued) **U001840958**

Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(516) 883-0413
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	38770
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	002
Tank ID:	38771
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

NATSAM CORP (Continued) **U001840958**

Tightness Test Method: 01
Date Test: 06/01/1990
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 003
Tank ID: 38772
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 04/01/1968
Date Tank Closed: 03/01/1994
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 06/01/1990
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 004
Tank ID: 38773
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 04/01/1968
Date Tank Closed: 03/01/1994

NATSAM CORP (Continued) **U001840958**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	005
Tank ID:	38774
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	006

NATSAM CORP (Continued) **U001840958**

Tank ID:	38775
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	007
Tank ID:	38776
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None

NATSAM CORP (Continued) **U001840958**

I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	008
Tank ID:	38777
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	009
Tank ID:	38778
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

NATSAM CORP (Continued) **U001840958**

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	010
Tank ID:	38779
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	06/01/1990
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	011
Tank ID:	38780
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	04/01/1968
Date Tank Closed:	03/01/1994
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	01
Date Test:	02/01/1990

NATSAM CORP (Continued) **U001840958**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 012
Tank ID: 38781
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 04/01/1968
Date Tank Closed: 03/01/1994
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 01
Date Test: 02/01/1990
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 013
Tank ID: 38782
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: 04/01/1968
Date Tank Closed: 03/01/1994
Registered: True
Tank Location: Underground

NATSAM CORP (Continued) **U001840958**

Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

L99 **CON EDISON SERVICE BOX: 19748** **RCRA NonGen / NLR** **1016963601**
ENE **733 FULTON ST** **NY MANIFEST** **NYP004365946**
< 1/8 **BROOKLYN, NY 11231**
0.113 mi.
598 ft. **Site 3 of 13 in cluster L**

Relative:
Higher

Actual:
57 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/25/2013
Facility name:	CON EDISON SERVICE BOX: 19748
Facility address:	733 FULTON ST BROOKLYN, NY 11231
EPA ID:	NYP004365946
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CON EDISON SERVICE BOX: 19748 (Continued) **1016963601**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/25/2013
Site name: CON EDISON SERVICE BOX: 19748
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004365946
Country: USA
Location Address 1: 733 FULTON ST
Location Address 2: SB# 19748
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11231
Location Zip Code 4: Not reported

Mailing Info:
Name: CON EDISON
Contact: CON EDISON
Address: 4 IRVING PL 15TH FL
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 09/25/2013
Trans1 Recv Date: 09/25/2013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 09/25/2013
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004365946
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 75
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1
Year: 2013
Manifest Tracking Num: 002290909GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N

CON EDISON SERVICE BOX: 19748 (Continued) **1016963601**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

L100 **LOT 8,TAXBLOCK 2116** **NY E DESIGNATION** **S108984126**
ENE **733 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.113 mi.
598 ft. **Site 4 of 13 in cluster L**

Relative:
Higher

Actual:
57 ft.

E DESIGNATION:

Tax Lot(s):	8
Tax Block:	2116
Borough Code:	BK
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

I101 **67 HANSON PLACE** **NY AST** **U003394606**
East **67 HANSON PLACE** **NY HIST AST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.114 mi.
603 ft. **Site 3 of 4 in cluster I**

Relative:
Higher

Actual:
61 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Inactive
Facility Id:	2-099171
Program Type:	PBS
UTM X:	586641.83357999998
UTM Y:	4504313.6541299997
Expiration Date:	05/07/1997
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2936
Affiliation Type:	Facility Owner
Company Name:	CITY OF NEW YORK HPD
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	75 MAIDEN LANE
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038

67 HANSON PLACE (Continued) **U003394606**

Country Code:	001
Phone:	(212) 806-8552
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2936
Affiliation Type:	Mail Contact
Company Name:	EIGES & EIGES MGMT CO
Contact Type:	Not reported
Contact Name:	BARBARA CHARNEY
Address1:	201 EASTERN PARKWAY
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 230-8500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2936
Affiliation Type:	On-Site Operator
Company Name:	EIGES EIGES MGMET CO INC
Contact Type:	Not reported
Contact Name:	EIGES EIGES MGMT CO INC
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-3988
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	2936
Affiliation Type:	Emergency Contact
Company Name:	CITY OF NEW YORK HPD
Contact Type:	Not reported
Contact Name:	JOE FRANCISKOVIS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 522-3988
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

67 HANSON PLACE (Continued) **U003394606**

Tank Info:

Tank Number:	001
Tank Id:	36893
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
E01 - Piping Secondary Containment - Diking (Aboveground)
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Galvanized Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1929
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/24/2014
Material Name:	#6 Fuel Oil (On-Site Consumption)

Tank Number:	001
Tank Id:	4694
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Tank Converted to Non-Regulated Use
Pipe Model:	Not reported
Install Date:	Not reported

67 HANSON PLACE (Continued) **U003394606**

Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	07/30/2003
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#6 Fuel Oil (On-Site Consumption)

Affiliation Records:

Site Id:	20247
Affiliation Type:	Facility Owner
Company Name:	HANSON PLACE ASSOCIATES, LP
Contact Type:	AGENT/DIR OF MGMT
Contact Name:	KENNETH COHEN
Address1:	67 HANSON PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11216
Country Code:	001
Phone:	(718) 740-0416
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	4/1/2008

Site Id:	20247
Affiliation Type:	Mail Contact
Company Name:	HANSON PLACE ASSOCIATES, LP
Contact Type:	Not reported
Contact Name:	KENNETH COHEN
Address1:	% SHINDA MANAGEMENT CORP.
Address2:	217-02 JAMAICA AVENUE
City:	QUEENS VILLAGE
State:	NY
Zip Code:	11428
Country Code:	001
Phone:	(718) 740-0416
EMail:	JEANNA@SHINDMGMTCORP.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/21/2014

Site Id:	20247
Affiliation Type:	On-Site Operator
Company Name:	HANSON PLACE ASSOCIATES, LP
Contact Type:	Not reported
Contact Name:	AURICK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(646) 772-7502

67 HANSON PLACE (Continued) **U003394606**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/21/2014

Site Id:	20247
Affiliation Type:	Emergency Contact
Company Name:	HANSON PLACE L.P.
Contact Type:	Not reported
Contact Name:	ANTHONY RODNEY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 740-0416
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank Id:	36893
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
E01 - Piping Secondary Containment - Diking (Aboveground)
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Galvanized Steel Alloy
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1929
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	04/24/2014
Material Name:	#6 Fuel Oil (On-Site Consumption)

67 HANSON PLACE (Continued) **U003394606**

Tank Number: 001
Tank Id: 4694
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Equipment Records:
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Tank Converted to Non-Regulated Use
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 4000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 07/30/2003
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #6 Fuel Oil (On-Site Consumption)

HIST AST:
PBS Number: 2-466484
SWIS Code: 6101
Operator: NYC HOUSING PRESERV & DEVEL
Facility Phone: (212) 806-8565
Facility Addr2: 67 HANSON PLACE
Facility Type: Not reported
Emergency: LEE KERBEL
Emergency Tel: (718) 636-3015
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: NYC HOUSING PRESERV & DEVEL
Owner Address: 75 MAIDEN LANE
Owner City,St,Zip: NEW YORK, NY 10038
Federal ID: Not reported
Owner Tel: (212) 806-8565
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Contact: Not reported
Mailing Name: NYC HOUSING PRESERV & DEVEL
Mailing Address: 75 MAIDEN LANE
Mailing Address 2: Not reported
Mailing City,St,Zip: NEW YORK, NY 10038
Mailing Telephone: (212) 806-8565

67 HANSON PLACE (Continued) **U003394606**

Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	02/15/1989
Expiration:	02/15/1994
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	5000
FAMT:	True
Facility Screen:	Minor Data Missing
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

L102 NE < 1/8 0.115 mi. 608 ft. | **ROAD SPILL** | **NY Spills** | **S110242778** | **N/A**

69 LAFAYETTE AVE AND SOUTH ELLIOTT PLACE
BROOKLYN, NY

Site 5 of 13 in cluster L

Relative: Higher

Actual: 51 ft.

SPILLS:

Facility ID:	0912574
Facility Type:	ER
DER Facility ID:	374364
Site ID:	425471
DEC Region:	2
Spill Date:	3/3/2010
Spill Number/Closed Date:	0912574 / 3/4/2010
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	3/3/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/3/2010
Spill Record Last Update:	3/4/2010
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	Not reported
Spiller Company:	Not reported
Contact Name:	CHRIS SANACORE
Contact Phone:	(347) 203-6886
DEC Memo:	Minor street spill from unknown vehicle.FD on site with City DEPNo DEC action required
Remarks:	TRUCK LEAKED FLUID AND LEFT THE SCENE. INTO STORM DRAIN. CLEAN UP IN PROGRESS

Material:

Site ID:	425471
Operable Unit ID:	1181193
Operable Unit:	01
Material ID:	2175261
Material Code:	0021
Material Name:	Transmission Fluid
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

ROAD SPILL (Continued) **S110242778**

Tank Test:

L103
NE
< 1/8
0.116 mi.
610 ft.

MANHOLE #37617
LAFAYETTE AVE & SOUTH ELLIOT PLACE
BROOKLYN, NY

NY Spills **S108129466**
N/A

Site 6 of 13 in cluster L

Relative:
Higher

Actual:
51 ft.

SPILLS:

Facility ID:	0604958
Facility Type:	ER
DER Facility ID:	318010
Site ID:	368049
DEC Region:	2
Spill Date:	7/31/2006
Spill Number/Closed Date:	0604958 / 11/15/2006
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GDBREEN
Referred To:	Not reported
Reported to Dept:	8/1/2006
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/1/2006
Spill Record Last Update:	11/15/2006
Spiller Name:	ERTS
Spiller Company:	CON EDISON MH #37617
Spiller Address:	LAFAYETTE AVE/SOUTH ELLIO
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERTS
Contact Phone:	(212) 580-8383
DEC Memo:	11/15/06 - See e-docs for Con Ed report detailing cleanup and closure.201540. see eDocs
Remarks:	on 2 gallons of water; has a default; coned # 201540

Material:

Site ID:	368049
Operable Unit ID:	1125939
Operable Unit:	01
Material ID:	2115463
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons

MANHOLE #37617 (Continued) **S108129466**

Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

H104 SSW < 1/8 0.116 mi. 614 ft. **NYCTA - PACIFIC STREET STATION** **RCRA NonGen / NLR** **1000552500**
PACIFIC ST & FOURTH AVE **NY MANIFEST** **NYD986948990**
BROOKLYN, NY 11217

Site 7 of 7 in cluster H

Relative: Lower

Actual: 42 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: NYCTA - PACIFIC STREET STATION
Facility address: PACIFIC ST & FOURTH AVE
BROOKLYN, NY 11217
EPA ID: NYD986948990
Mailing address: JAY ST ROOM 809
BROOKLYN, NY 11201
Contact: Not reported
Contact address: JAY ST ROOM 809
BROOKLYN, NY 11201
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address: 370 JAY ST ROOM 809
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 330-4891
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address: 370 JAY ST ROOM 809
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 330-4891
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

NYCTA - PACIFIC STREET STATION (Continued) **1000552500**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	NYCTA - PACIFIC STREET STATION
Classification:	Not a generator, verified
Date form received by agency:	07/08/1999
Site name:	NYCTA - PACIFIC STREET STATION
Classification:	Not a generator, verified
Date form received by agency:	04/18/1991
Site name:	NYCTA - PACIFIC STREET STATION
Classification:	Large Quantity Generator
. Waste code:	X002
. Waste name:	POLYCHLORINATED BIPHENOLS (PCBs)
Violation Status:	No violations found

Evaluation Action Summary:

Evaluation date:	09/20/1998
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

NY MANIFEST:

EPA ID:	NYD986948990
Country:	USA
Location Address 1:	SUBWAY STA PACIFIC & 4TH
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYCTA
Contact:	ASHOK PATEL
Address:	SUBWAY STATION PACIFIC & 4TH
City/State/Zip:	BROOKLYN, NY 11201
Country:	USA
Phone:	718-230-5555

NYCTA - PACIFIC STREET STATION (Continued) **1000552500**

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR986628162
Trans2 State ID:	Not reported
Generator Ship Date:	05/10/2013
Trans1 Recv Date:	05/10/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/10/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986948990
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	20
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	000517947WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	NYB2478555
Manifest Status:	Completed copy
Trans1 State ID:	128AAOK
Trans2 State ID:	Not reported
Generator Ship Date:	06/29/1992
Trans1 Recv Date:	06/29/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/29/1992
Part A Recv Date:	07/28/1992
Part B Recv Date:	07/17/1992
Generator EPA ID:	NYD986948990
Trans1 EPA ID:	TXD988052494
Trans2 EPA ID:	Not reported
TSDF ID:	PAD981113749
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00211
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks

NYCTA - PACIFIC STREET STATION (Continued) **1000552500**

Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 1992

J105 WSW < 1/8 0.116 mi. 614 ft. **CON EDISON SERVICE BOX: 14729** **RCRA NonGen / NLR** **1016970053**
535 ATLANTIC AVE **NY MANIFEST** **NYP004437521**
BROOKLYN, NY 11217

Site 4 of 7 in cluster J

Relative: Lower

Actual: 39 ft.

RCRA NonGen / NLR:
Date form received by agency: 03/07/2014
Facility name: CON EDISON SERVICE BOX: 14729
Facility address: 535 ATLANTIC AVE
BROOKLYN, NY 11217
EPA ID: NYP004437521
Mailing address: IRVING PL, 15TH FL NE
NEW YORK, NY 10003
Contact: THOMAS TEELING
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/07/2014
Site name: CON EDISON SERVICE BOX: 14729
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004437521
Country: USA
Location Address 1: 535 ATLANTIC AVE
Location Address 2: SB14729

CON EDISON SERVICE BOX: 14729 (Continued) **1016970053**

Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PLACE
Address 2:	15TH FL
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	02/07/2014
Trans1 Recv Date:	02/07/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004437521
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	40
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	002300901GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

N106 West < 1/8 0.117 mi. 620 ft. | **CON EDISON MANHOLE #2863**
STATE STREET AND 3RD AVE
BROOKLYN, NY | **NY Spills** | **S111237462**
N/A

Site 1 of 5 in cluster N

Relative: Lower

Actual: 39 ft.

SPILLS:

Facility ID:	1105965
Facility Type:	ER
DER Facility ID:	408258
Site ID:	453638
DEC Region:	2
Spill Date:	8/25/2011
Spill Number/Closed Date:	1105965 / 10/6/2011
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	8/25/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/25/2011
Spill Record Last Update:	10/6/2011
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT
Contact Phone:	212-580-8383
DEC Memo:	8/26/11-Vought-Primary off-hours responder. Spill assigned to DEC Feroze as part of routine Con Ed minor spill portfolio review and possible closure. Initial EMIS# downloaded into e-docs, entered into Cross Reference field and deleted from proxy. EMIS notes that "1 pint of dielectric fluid leaking from feeder on concrete floor of structure contained..".10/6/11 - Austin - 1 pint feeder leak contained in vault - Con Ed contained and cleaned up the spill - See eDocs for further information - Case closed - end
Remarks:	1 pint leaked out, ongoing leak 60 drops/min at this time, contained to concrete floor of manhole.

Material:

Site ID:	453638
Operable Unit ID:	1203796
Operable Unit:	01
Material ID:	2200524
Material Code:	0541A
Material Name:	DIELECTRIC FLUID
Case No.:	Not reported
Material FA:	Petroleum

CON EDISON MANHOLE #2863 (Continued) **S111237462**

Quantity:	0.13
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

N107 West < 1/8 0.118 mi. 623 ft. **CON EDISON MANHOLE 2863** **RCRA NonGen / NLR** **1014926299**
STATE ST & 3RD AVE NW COR **NJ MANIFEST** **NYP004240537**
BROOKLYN, NY 11201 **NY MANIFEST**

Site 2 of 5 in cluster N

Relative: Lower

Actual: 39 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/25/2011
Facility name:	CON EDISON MANHOLE 2863
Facility address:	STATE ST & 3RD AVE NW COR BROOKLYN, NY 11201
EPA ID:	NYP004240537
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	WILLIAM HOUSE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-5194
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/26/2011
Site name:	CON EDISON MANHOLE 2863
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

CON EDISON MANHOLE 2863 (Continued) **1014926299**

NJ MANIFEST:

EPA Id:	NYP004240537
Mail Address:	4 IRVING PL, RM 828
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	WILLIAM HOUSE
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	007019341JJK
EPA ID:	NYP004240537
Date Shipped:	8/26/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD000706218
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	CONSOLIDATED EDISON CO OF NY MH #2863
Transporter-1 EPA Facility Name:	CONSOLIDATED EDISON OF NY
TSDF EPA Facility Name:	CYCLE CHEM INC
QTY Units:	kilograms
Transporter SEQ ID:	1.00
Transporter-1 Date:	8/31/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	8/31/2011
Manifest Discrepancy Type:	Quantity

CON EDISON MANHOLE 2863 (Continued) **1014926299**

Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H141
Quantity:	348.00 kilograms

NY MANIFEST:

EPA ID:	NYP004240537
Country:	USA
Location Address 1:	222 1ST STREET
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON - MH2863
Contact:	TOM TEELING
Address:	4 IRVING PLACE - 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD000706218
Trans2 State ID:	Not reported
Generator Ship Date:	08/26/2011
Trans1 Recv Date:	08/31/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/31/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004240537
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	348.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007019341JJK
Import Ind:	N

CON EDISON MANHOLE 2863 (Continued) **1014926299**

Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

N108 **3RD AVE AND STATE ST** **NY Spills** **S109207574**
West **3RD AVE AND STATE ST** **N/A**
< 1/8 **BROOKLYN, NY**
0.118 mi.
625 ft. **Site 3 of 5 in cluster N**

Relative:
Lower

Actual:
39 ft.

SPILLS:

Facility ID:	0806090
Facility Type:	ER
DER Facility ID:	352552
Site ID:	403350
DEC Region:	2
Spill Date:	8/29/2008
Spill Number/Closed Date:	0806090 / 8/29/2008
Spill Cause:	Traffic Accident
Spill Class:	Not reported
SWIS:	2401
Investigator:	HRAHMED
Referred To:	Not reported
Reported to Dept:	8/29/2008
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial Vehicle
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/29/2008
Spill Record Last Update:	8/29/2008
Spiller Name:	Not reported
Spiller Company:	TRUCK ACCIDENT
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	FDNY
Contact Phone:	Not reported
DEC Memo:	08/29/08-HRAHMED-Duty Desk-Called FDNY John (347 203 6886). As per him unknown amount of diesel (approx 2 g) spilled on the street and went most of it into storm sewer. FDNY put speedy dry on the street and notified DEP. This case is closed.
Remarks:	result of a vehicle accident the saddle tank ruptured and spilled above fluid. unknown amount of diesel went into the storm sewer.

Material:

3RD AVE AND STATE ST (Continued) **S109207574**

Site ID:	403350
Operable Unit ID:	1160054
Operable Unit:	01
Material ID:	2151208
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

L109 **LOT 7,TAXBLOCK 2116** **NY E DESIGNATION** **S108984113**
ENE **737 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.119 mi.
628 ft. **Site 7 of 13 in cluster L**

Relative:
Higher

Actual:
59 ft.

E DESIGNATION:

Tax Lot(s):	7
Tax Block:	2116
Borough Code:	Not reported
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

L110 **EDR US Hist Cleaners** **1015086534**
ENE **674 FULTON ST** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.120 mi.
635 ft. **Site 8 of 13 in cluster L**

Relative:
Higher

Actual:
59 ft.

EDR Historical Cleaners:

Name:	WASHINGTON CRTNEY FSHION STDIO
Year:	2004
Address:	674 FULTON ST
Name:	COURTNEY WASHINGTON FASHION
Year:	2010
Address:	674 FULTON ST
Name:	COURTNEY WASHINGTON FASHION STUDIOS
Year:	2011
Address:	674 FULTON ST

M111 **EDR US Hist Auto Stat** **1015562919**
NW **59 FLATBUSH AVE** **N/A**
< 1/8 **BROOKLYN, NY 11217**
0.120 mi.
636 ft. **Site 7 of 11 in cluster M**

Relative:
Lower

Actual:
38 ft.

EDR Historical Auto Stations:

Name:	JUNK CAR REMOVAL & TOWING
Year:	2011
Address:	59 FLATBUSH AVE

L112 **LOT 6,TAXBLOCK 2116** **NY E DESIGNATION** **S108984090**
ENE **739 FULTON STREET** **N/A**
< 1/8 **BROOKLYN, NY**
0.122 mi.
644 ft. **Site 9 of 13 in cluster L**

Relative:
Higher

Actual:
60 ft.

E DESIGNATION:

Tax Lot(s):	6
Tax Block:	2116
Borough Code:	Not reported
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

N113 **NYC DEPT OF SANITATION - YWCA** **RCRA NonGen / NLR** **1000554524**
West **30 3RD AVE** **FINDS** **NYD986969921**
< 1/8 **BROOKLYN, NY 11217**
0.122 mi.
645 ft. **Site 4 of 5 in cluster N**

Relative:
Lower

Actual:
39 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYC DEPT OF SANITATION - YWCA
Facility address:	30 3RD AVE BROOKLYN, NY 11217
EPA ID:	NYD986969921
Mailing address:	BEAVER ST 6TH FL NEW YORK, NY 10004
Contact:	Not reported
Contact address:	BEAVER ST 6TH FL NEW YORK, NY 10004
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYC DEPT OF SANITATION RECYCLING
Owner/operator address:	44 BEAVER ST

NYC DEPT OF SANITATION - YWCA (Continued) **1000554524**

	NEW YORK, NY 10004
Owner/operator country:	US
Owner/operator telephone:	(212) 837-8165
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NYC DEPT OF SANITATION RECYCLING
Owner/operator address:	44 BEAVER ST
	NEW YORK, NY 10004
Owner/operator country:	US
Owner/operator telephone:	(212) 837-8165
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	NYC DEPT OF SANITATION - YWCA
Classification:	Not a generator, verified

Date form received by agency:	12/16/1991
Site name:	NYC DEPT OF SANITATION - YWCA
Classification:	Not a generator, verified

. Waste code:	NONE
. Waste name:	None

Date form received by agency:	09/20/1991
Site name:	NYC DEPT OF SANITATION - YWCA
Classification:	Small Quantity Generator

. Waste code:	D001
. Waste name:	IGNITABLE WASTE

Violation Status: No violations found

NYC DEPT OF SANITATION - YWCA (Continued) **1000554524**

FINDS:

Registry ID: 110060249529

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Registry ID: 110004475924

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

I114
East
< 1/8
0.123 mi.
648 ft.

LOT 30,TAXBLOCK 2003
70 HANSON PLACE
BROOKLYN, NY 11217

NY E DESIGNATION **S117676143**
N/A

Site 4 of 4 in cluster I

Relative:
Higher

Actual:
62 ft.

E DESIGNATION:

Tax Lot(s):	30
Tax Block:	2003
Borough Code:	BK
E-No:	E-183
Effective Date:	7/25/2007
Satisfaction Date:	Not reported
Ceqr Number:	07DCP066K
Ulurp Number:	070430ZMK
Zoning Map No:	16c
Description:	Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date:	Not reported

K115
SSE
< 1/8
0.124 mi.
657 ft.

NYCTA - 165 CENTRAL INSTR RM
ATLANTIC AVE NEAR FLATBUSH
BROOKLYN, NY 11201

RCRA NonGen / NLR **1000134222**
NY MANIFEST **NYD982738817**

Site 14 of 14 in cluster K

Relative:
Higher

Actual:
46 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYCTA - 165 CENTRAL INSTR RM
Facility address:	ATLANTIC AVE NEAR FLATBUSH BROOKLYN, NY 11201
EPA ID:	NYD982738817
Mailing address:	JAY ST RM 809 BROOKLYN, NY 11201
Contact:	Not reported
Contact address:	JAY ST RM 809

NYCTA - 165 CENTRAL INSTR RM (Continued) **1000134222**

	BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NEW YORK TRANSIT AUTH
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	County
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NEW YORK TRANSIT AUTH
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	County
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	NYCTA - 165 CENTRAL INSTR RM
Classification:	Not a generator, verified

Date form received by agency:	07/08/1999
Site name:	NYCTA - 165 CENTRAL INSTR RM
Classification:	Not a generator, verified

Date form received by agency:	06/28/1989

NYCTA - 165 CENTRAL INSTR RM (Continued) **1000134222**

Site name: NYCTA - 165 CENTRAL INSTR RM
Classification: Large Quantity Generator

. Waste code: X002
. Waste name: POLYCHLORINATED BIPHENOLS (PCBs)

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD982738817
Country: USA
Location Address 1: ATLANTIC AVE & FLATBUSH
Location Address 2: Not reported
Location City: NEW YORK
Location State: NY
Location Zip Code: 10019
Location Zip Code 4: Not reported

Mailing Info:
Name: NYCTA-165 CENTRAL INSTRUMENT RM
Contact: JAMES H. KLAMMER
Address: 1350 AVE OF AMER-RM 1706
City/State/Zip: NEW YORK, NY 10019
Country: USA
Phone: 212-492-8044

Manifest:

Document ID: NYB1138131
Manifest Status: Completed copy
Trans1 State ID: AB00449PA
Trans2 State ID: 274N15OH
Generator Ship Date: 04/08/1991
Trans1 Recv Date: 04/08/1991
Trans2 Recv Date: 04/09/1991
TSD Site Recv Date: 04/23/1991
Part A Recv Date: 04/18/1991
Part B Recv Date: 05/02/1991
Generator EPA ID: NYD982738817
Trans1 EPA ID: OHD981960123
Trans2 EPA ID: OHD981960123
TSDF ID: OHD981960123
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 00033
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 150
Year: 1991

Document ID: NYB2667501
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: AB00443PA
Trans2 State ID: T389HLNJ
Generator Ship Date: 09/27/1990
Trans1 Recv Date: 09/27/1990

NYCTA - 165 CENTRAL INSTR RM (Continued) **1000134222**

Trans2 Recv Date:	10/01/1990
TSD Site Recv Date:	10/03/1990
Part A Recv Date:	11/01/1990
Part B Recv Date:	10/25/1990
Generator EPA ID:	NYD982738817
Trans1 EPA ID:	OHD981960123
Trans2 EPA ID:	OHD981960123
TSDF ID:	OHD981960123
Waste Code:	B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity:	00023
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	087
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00034
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	000
Year:	1990

M116 **PUPIL PERSONNEL (K806)** **NY AST** **A100178042**
WNW **362 SCHERMERHORN ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.126 mi.
663 ft. **Site 8 of 11 in cluster M**

Relative:
Lower

Actual:
40 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-605759
Program Type:	PBS
UTM X:	586198.24828000006
UTM Y:	4504454.0682100002
Expiration Date:	04/25/2016
Site Type:	School

Affiliation Records:

Site Id:	27626
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	MGR, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/12/2014

PUPIL PERSONNEL (K806) (Continued) **A100178042**

Site Id:	27626
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	5/10/2011

Site Id:	27626
Affiliation Type:	On-Site Operator
Company Name:	PUPIL PERSONNEL (K806)
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	3/22/2006

Site Id:	27626
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPT. OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	10/18/2013

Tank Info:

Tank Number:	001
Tank Id:	60430
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

PUPIL PERSONNEL (K806) (Continued) **A100178042**

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
I02 - Overfill - High Level Alarm
I04 - Overfill - Product Level Gauge (A/G)
L00 - Piping Leak Detection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	08/01/1999
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	03/22/2006
Material Name:	#2 Fuel Oil (On-Site Consumption)

M117 **NYC DEPT OF EDUCATION - H S 806K** **RCRA-SQG** **1016451914**
WNW **362 SCHERMERHORN ST** **FINDS** **NYR000205070**
1/8-1/4 **BROOKLYN, NY 11217**
0.126 mi.
663 ft. **Site 9 of 11 in cluster M**

Relative:
Lower

Actual:
40 ft.

RCRA-SQG:

Date form received by agency:	11/21/2013
Facility name:	NYC DEPT OF EDUCATION - H S 806K
Facility address:	362 SCHERMERHORN ST BROOKLYN, NY 11217
EPA ID:	NYR000205070
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

NYC DEPT OF EDUCATION - H S 806K (Continued) **1016451914**

Owner/Operator Summary:

Owner/operator name:	NYC DEPT OF SCHOOL FACILITIES
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	01/24/1850
Owner/Op end date:	Not reported

Owner/operator name:	NYC DEPT OF EDUCATION
Owner/operator address:	THOMSON AVE
	LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	(718) 472-8501
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	01/24/1850
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: B004
. Waste name: B004

. Waste code: B007
. Waste name: B007

Violation Status: No violations found

FINDS:

Registry ID: 110060249413

Environmental Interest/Information System
FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

Registry ID: 110056379841

NYC DEPT OF EDUCATION - H S 806K (Continued) **1016451914**

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

M118 **55 FLATBUSH AVE** **NY AST** **U003384282**
NW **55 FLATBUSH AVE** **NY HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.129 mi.
682 ft. **Site 10 of 11 in cluster M**

Relative:
Lower

Actual:
38 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-090166
Program Type:	PBS
UTM X:	586259.14616999996
UTM Y:	4504469.9297200004
Expiration Date:	06/08/2009
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2179
Affiliation Type:	Mail Contact
Company Name:	R.A. COHEN & ASSOCIATES. INC.
Contact Type:	Not reported
Contact Name:	FRED FRAGANO
Address1:	60 EAST. 42ND ST.
Address2:	SUITE1250
City:	NEW YORK
State:	NY
Zip Code:	10165
Country Code:	001
Phone:	(212) 972-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kxtang
Date Last Modified:	6/9/2004

Site Id:	2179
Affiliation Type:	On-Site Operator
Company Name:	55 FLATBUSH AVE
Contact Type:	Not reported
Contact Name:	MONDI GJONI
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 908-8664
EMail:	Not reported
Fax Number:	Not reported

55 FLATBUSH AVE (Continued) **U003384282**

Modified By:	kxtang
Date Last Modified:	6/8/2004

Site Id:	2179
Affiliation Type:	Emergency Contact
Company Name:	SCHWARTZ & BASCOME, LLC
Contact Type:	Not reported
Contact Name:	DOLORES KARADZAS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 345-7421
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kxtang
Date Last Modified:	6/8/2004

Site Id:	2179
Affiliation Type:	Facility Owner
Company Name:	SCHWARTZ & BASCOME, LLC
Contact Type:	AGENT
Contact Name:	FRED FRAGANO
Address1:	C/O R.A. COHEN & ASSOC. INC.-60 E. 42ND ST. RM1250
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10165
Country Code:	001
Phone:	212-972-5900
EMail:	Not reported
Fax Number:	Not reported
Modified By:	kxtang
Date Last Modified:	6/9/2004

Tank Info:

Tank Number:	001
Tank Id:	3461
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
I00 - Overfill - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
G04 - Tank Secondary Containment - Double-Walled (Underground)
H00 - Tank Leak Detection - None

Tank Location: 1

55 FLATBUSH AVE (Continued) **U003384282**

Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	3000
Tightness Test Method:	21
Date Test:	05/21/2002
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	kxtang
Last Modified:	06/08/2004
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-090166
SWIS Code:	6101
Operator:	MYLAW REALTY CORP
Facility Phone:	(718) 739-8400
Facility Addr2:	55 FLATBUSH AVE
Facility Type:	OTHER
Emergency:	KEN CORWEN
Emergency Tel:	(718) 739-8400
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	MYLAW REALTY CORP
Owner Address:	166-36 JAMAICA AVE-P O BOX 2530
Owner City,St,Zip:	JAMAICA, NY 11431-2530
Federal ID:	Not reported
Owner Tel:	(718) 739-8400
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	MYLAW REALTY CORP
Mailing Address:	166-36 JAMAICA AVENUE
Mailing Address 2:	P O BOX 2530
Mailing City,St,Zip:	JAMAICA, NY 11431-2530
Mailing Telephone:	(718) 739-8400
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	12/14/2001
Expiration:	03/24/2007
Renew Flag:	False
Renew Date:	11/13/2001
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY

55 FLATBUSH AVE (Continued) **U003384282**

County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	09/01/1997
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

J119 **CONSOLIDATED EDISON** **NY MANIFEST** **1009226157**
WSW **537 ATLANTIC AVE & 300 AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.130 mi.
686 ft. **Site 5 of 7 in cluster J**

Relative:
Lower

Actual:
38 ft.

NY MANIFEST:

EPA ID:	NYD004053633
Country:	USA
Location Address 1:	537 ATLANTIC AVE & 300 AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	1913

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLIN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	CTF0901330

CONSOLIDATED EDISON (Continued) **1009226157**

Manifest Status:	Not reported
Trans1 State ID:	PU19202OH
Trans2 State ID:	Not reported
Generator Ship Date:	04/13/2000
Trans1 Recv Date:	04/13/2000
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/13/2000
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD004053633
Trans1 EPA ID:	MAD039322250
Trans2 EPA ID:	Not reported
TSDF ID:	CTD000604488
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00002
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2000

J120 **CON ED-MH2599** **NY MANIFEST** **S109064665**
WSW **537 ATLANTIC AVE OPP** **N/A**
1/8-1/4 **BROOKLYN, NY 11238**
0.130 mi.
686 ft. **Site 6 of 7 in cluster J**

Relative:
Lower

Actual:
38 ft.

NY MANIFEST:

EPA ID:	NYP004053633
Country:	USA
Location Address 1:	537 ATLANTIC AVE OPP
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11238
Location Zip Code 4:	0000

Mailing Info:

Name:	CON ED-MH2599
Contact:	Not reported
Address:	Not reported
City/State/Zip:	Not reported
Country:	Not reported
Phone:	Not reported

NY MANIFEST:

No Manifest Records Available

O121 SSW 1/8-1/4 0.136 mi. 720 ft. | **PACIFIC BRANCH**
25 4TH AVENUE
BROOKLYN, NY 11217 | **NY UST** | **U001839490**
NY HIST UST | **N/A**
NY Spills

Site 1 of 2 in cluster O

Relative: Lower

Actual: 41 ft.

UST:

Id/Status:	2-345148 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	12/14/1997
UTM X:	586316.49222999997
UTM Y:	4504115.5778599996
Site Type:	Other

Affiliation Records:

Site Id:	16822
Affiliation Type:	Facility Owner
Company Name:	BROOKLYN PUBLIC LIBRARY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1 GRAND ARMY PLAZA
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 780-7707
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	16822
Affiliation Type:	Mail Contact
Company Name:	BROOKLYN PUBLIC LIBRARY
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	1 GRAND ARMY PLAZA
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11238
Country Code:	001
Phone:	(718) 780-7707
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	16822
Affiliation Type:	On-Site Operator
Company Name:	PACIFIC BRANCH
Contact Type:	Not reported
Contact Name:	BROOKLYN PUBLIC LIBRARY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN

PACIFIC BRANCH (Continued) **U001839490**

Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-5180
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	16822
Affiliation Type:	Emergency Contact
Company Name:	BROOKLYN PUBLIC LIBRARY
Contact Type:	Not reported
Contact Name:	BUILDINGS & MAINTENANCE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 780-7707
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	32747
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2500
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

PACIFIC BRANCH (Continued) **U001839490**

HIST UST:

PBS Number:	2-345148
SPDES Number:	Not reported
Emergency Contact:	BUILDINGS & MAINTENANCE
Emergency Telephone:	(718) 780-7707
Operator:	BROOKLYN PUBLIC LIBRARY
Operator Telephone:	(718) 638-5180
Owner Name:	BROOKLYN PUBLIC LIBRARY
Owner Address:	1 GRAND ARMY PLAZA
Owner City,St,Zip:	BROOKLYN, NY 11238
Owner Telephone:	(718) 780-7707
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Name:	BROOKLYN PUBLIC LIBRARY
Mailing Address:	1 GRAND ARMY PLAZA
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11238
Mailing Contact:	Not reported
Mailing Telephone:	(718) 780-7707
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.
Facility Addr2:	25 4TH AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	11/12/1992
Expiration Date:	12/14/1997
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-In Place
Install Date:	Not reported
Capacity (gals):	2500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported

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Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

SPILLS:

Facility ID:	9305122
Facility Type:	ER
DER Facility ID:	217055
Site ID:	266438
DEC Region:	2
Spill Date:	7/19/1993
Spill Number/Closed Date:	9305122 / Not Reported
Spill Cause:	Unknown
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JBVOUGHT
Referred To:	070314 APPROVED CAP 62 FOR ENVIROTRAC
Reported to Dept:	7/24/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Tank Tester
Cleanup Ceased:	7/24/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	5
Date Entered In Computer:	7/27/1993
Spill Record Last Update:	3/10/2015
Spiller Name:	RALPH AND SUSAN GUARINO
Spiller Company:	RALPH AND SUSAN GUARINO
Spiller Address:	737 4TH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY 11232
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"8/00 transferred from tomasello to tipplesee also 9108033, 9313792, 9505109, 9705158, 9814652. MCT2/19/2002 Tipple found this spill inadvertantly closed out in this database today and immediately re-opened it. This is currently one of the region's most active remediations today.8/23/05 - Raphael Ketani. Case transferred to Jeff Vought.09/02/2005 - Transferred to Mark Tibbe.11/12/10 - spill

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re-assigned from Tibbe to Joe O'Connell9/29/11 - Raphael Ketani. Case transferred from O'Connell to Ketani.12/21/11 - Raphael Ketani. I reactivated the spill/PIN case. There are 5 other associated cases, but only #9108033 has any documentation. All of these cases have been closed and referred back to this one. There are 3 full file draws with documentation. However, very little of it has been e-doc'd.The case started when oil (diesel fuel) was found to be dripping onto the R Line subway platform under 4th Avenue and between 25th Street and 26th Street, Brooklyn. The oil had also drained from the platform and onto the tracks. The DEC was notified by the NYCTA about the spill. The FDNY responded and put down absorbent sand. The date of the spill is 7/19/93. However, it wasn't called in until 7/24/93.A fingerprint analysis indicated that the oil was a mix of weathered diesel and/or #2 oil between 10 and 15 years old. The pool of oil was initially estimated to be greater than 100,000 gals. and was mostly being held in place by the subway wall. However, subsequent DEC contractors have indicated that the oil pool is much smaller. The recovery system was extensively damaged during the construction of the Dunkin Donuts. Mobile Hi-Vacs were used to collect the oil. Bright red #2 oil was detected entering the pool of oil from upgradient. So it is believed that there is an ongoing source of unknown origin. Recent excavation beneath the surface of the site revealed that the soil is free of diesel with only minor gasoline contamination. The sources of the #2 oil may be a warehouse that is directly upgradient or other locations. A knee wall was installed on the subway platform to catch the seepage, but is sometimes overwhelmed during rain events. The source was eventually traced to the Eagle Service Station at 737 4th Avenue, Brooklyn, 11232. The site is owned by Ralph and Susan Guarino. Mr. Guarino bought the property during 1987. Though the new tanks that were installed by Mr. Guarino were not believed to be the source. The source was believed to be the old diesel tanks that were in existence when MOBIL owned the site up until 1987. Initially, Mr. Guarino was cooperative with the DEC contractors regarding the spill investigation. According to an August 5, 2001 NY Daily News article, Ralph and Susan Guarino were determined to be the responsible parties. Mr. Guarino was an FBI informant. He twice turned off the recovery system, which resulted in diesel leaking onto the platform. He threatened to pour concrete down the monitoring wells and for 8 months prevented remediation staff from coming onto his property to do their work. Eventually in 1999, the Attorney General went to court to get an emergency injunction against Mr. Guarino to prevent him from interfering. In 1999, Mr. Guarino agreed to let the remediation staff onto his property. The gas station was demolished and the site is now a Dunkin Donuts. According to the September 26, 2001 Second Demand Letter, Susan Guarino (128 Maitland Avenue, Altamonte Springs, FL, 32701-4902) is being held liable by the AG's office for $1,924,150.68. Though, $2,121,183 had been spent on the project by the DEC up to 2002.One of the previous DEC case managers, Mark Tibbe, sent me an e-mail regarding the history of the spill case. He wrote that nothing significant happened between 2001 and 2011. The DEC contractors were monitoring and bailing wells because the recovery system wasn't working. It was too old to repair and replacing it was too expensive. The subway was being monitored to make sure that product wasn't showing up. In the early 2000s there wasn't much product, but it showed up again. It was believed that the former service station was the primary source and that there was a fresh source of #2 oil. Later, I found the latest site report. It was

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written by Environmental Assessment and Remediations. The report was dated August 18, 2006 and covered the period from January 2006 to June 2006. Groundwater was generally found at 22 feet below grade. It was believed that the subway tunnel was affecting groundwater flow. The groundwater was moving through a layer of glacial till and outwash sediments. The outwash sediments contained sand and gravel. Discontinuous thin clay lenses were also present. During 2001, several wells showed increasing amounts of product. On 4/24/01, red oil appeared in well MW10A. Wells MW82, MW90, MW32B, and MW13A also had red oil at this time. At this time, MW9 showed signs of dark oil with sludge. There were several oil tanks in the neighborhood. The tank at 220 25th Street was a 2,500 gal. #2 oil UST. The system was tested and found to be sound. The property at 225 25th Street had a 10,000 gal. #6 oil AST. One private building at 228 25th Street had a 275 gal. oil tank, but nothing else was known. There was a 1,000 gal. UST at 217 25th Street, directly upgradient from the site, but it was never investigated. From 2002 and 2004, EAR continued to maintain the remediation system. In 2004, EAR received permission from the DEC to abandon 17 wells that weren't providing useful data. The wells were abandoned from April to June of 2004. Throughout 2005, EAR continued to maintain the remediation system. During August 2005, renovations were made to the subway oil containment system. Weekly visits were made and spent absorbent was removed and replaced. The wells continued to be monitored on a weekly basis. On April 20, 2006, the recovery system was shut down to see how much product would appear. The recovery system remained off during the reporting period. Wells MW9, MW10, MW13, MW13A, MW23, MW23A, MW31, MW32B and MW82 showed a rebound of product. From January to April, a total of 26.99 gals. of liquids were recovered from all of the wells during. Product thickness on 6/22/06 was much less than 1 foot in the wells that were exhibiting oil.12/22/11 - Raphael Ketani. Today I spoke to Dave Lorthioir of EnviroTrac (631) 924-3001, the DEC's consultant, regarding the project. He said that they have been monitoring and bailing wells on a weekly basis. However, they only deal with the wells in and immediately around the site. The water table is high right now and they haven't seen any product. However, in the spring of 2011, there had been a good amount of product. Before EnviroTrac took over the project a few years ago, they spoke to the previous DEC consultants. These consultants told them that there hadn't been any oil in the subway for some time. Mr. Lorthioir said that EnviroTrac hadn't seen oil in the subway, either. A report will be sent to the DEC soon. Later, Mr. Lorthioir sent me the 2011 groundwater monitoring data tables. Very few of the wells had shows of oil. Wells MW-8, MW-8A, MW-9 and MW-31 all had periods of from 2 to 7 consecutive months during which there were weekly shows of oil during 2011. A small number of other wells had sporadic shows of oil consisting of about several weeks during which oil was seen, but the weeks were not consecutive. Wells MW-8, MW-8A, MW-9 and MW-31 are all in the southern corner of the Dunkin Donuts property. MW-9 is directly over a rectangular figure in the well location diagram. Wells MW-40 and MW-41 were abandoned earlier. According to the case notes, seventeen wells were abandoned some time ago.Mr. Lorthioir also included a DRAFT 10/29/10 Status Report for the site. The report covered the years 2009 to 2010. I reviewed the report. The data inside indicated that the same wells that had oil in 2011 had oil during 2009 and 2010. There were also some other wells that had oil shows in and around the Dunkin Donuts store.1/4/12 - Raphael Ketani.

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I received CAP 31 for EnviroTrac. The bill is DC2023.01-32 for the period 10/31/11 to 11/27/11. The date of the invoice is 12/13/11. The work consisted of project management, project coordination, generate internal work order, revise internal work order, prepare for monitoring event, travel to and from site, calls to technician at site, gauge 36 wells, bail product by hand, update product recovery tables and enter data, use of low value equipment, light duty vehicle and sonic probe, purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.1/30/12 - Raphael Ketani. I received CAP 32 for EnviroTrac. The bill is DC2023.01-33 for the period 11/28/11 to 1/1/12. The date of the invoice is 1/16/12. The work consisted of project management, review data from last monitoring event, generate internal work order, revise internal work order, prepare for monitoring event, project management communication with DEC, calls to technician at site, decontaminate equipment, gauge 34 wells, bail product by hand, update product recovery tables and enter data, use of low value equipment, light duty vehicle and sonic probe, travel to and from site, purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.2/21/12 - Raphael Ketani. I received CAP 33 for EnviroTrac. The bill is DC2023.01-34 for the period 1/2/11 to 1/29/12. The date of the invoice is 2/13/12. The work consisted of project management and coordination, prepare internal work order, do budget projections, project management communication with DEC, travel to and from site, calls to technician at site, well gauging and product recovery, tabulate gauging data from December 30, 2011 field activities, review and tabulate gauging and product recovery data from field activities during January 12, 2012, use of low value equipment, light duty vehicle and sonic probe, purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.4/10/12 - Raphael Ketani. I received CAP 35 for EnviroTrac. The bill is DC2023.01-35 for the period 2/1/12 to 2/26/12. The date of the invoice is 3/15/12. The work consisted of project coordination. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.7/26/12 - Raphael Ketani. I received a request to abandon 16 wells at the site. I asked Mr. Lorthioir where the oil had appeared and what it had looked like. He said that it was NOT red oil, but looked weathered. He added that the oil sometimes appears in well MW-46, in the alleyway behind 753 4th Avenue. This is across the street and to the south (side gradient) of the site. Mr. Lorthioir said that it is hard to get to this well as the alleyway is usually locked and so he hadn't been back in a long time. Getting in involves getting ahold of the owner, which is difficult. One time he went through the back of a store in order to get to the well.8/8/12 - Raphael Ketani. I sent an e-mail to Sandy Camacho of the NYFD requesting his help in finding any oil tanks at 751, 753 and 755 4th Avenue, and at 204, 214-216 and 220 25th Street. 10/1/12 - Raphael Ketani. I received CAP 41 for EnviroTrac. The bill is DC2023.01-36 for the period 7/30/12 to 8/26/12. The date of the invoice is 9/13/12. The work consisted of project management, produce work order, create monitoring schedule, review results of site inspection, obtain DOT permits for well abandonment, gauge wells, replace socks, product recovery, travel to and from site, use of low value equipment, sonic interface probe and light duty vehicles, purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.10/25/12 - Raphael Ketani. I received CAP 42 for EnviroTrac. The bill is DC2023.01-37 for the period 8/27/12 to

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9/30/12. The date of the invoice is 10/12/12. The work consisted of project management, calls to technician in the field, produce work order, review results of site inspection, compile and review data, gauge 37 wells, 1 well product recovery, hand bail wells as required, travel to and from site, use of low value equipment, sonic interface probe and light duty vehicles, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.11/29/12 - Raphael Ketani. I received CAP 43 for EnviroTrac. The bill is DC2023.01-38 for the period 10/1/12 to 10/28/12. The date of the invoice is 11/15/12. The work consisted of project management, prepare work order, obtain NYC DOT permits, prepare for well abandonment, travel to and from site, well gauging, product recovery, review and tabulate gauging and product recovery data, review latest monitoring data, abandon 11 wells, sidewalk restoration, calls to crew at site, use of light and heavy duty vehicles, low value equipment, sonic interface probe, generator, jack hammer, concrete cutter, concrete mixer and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.12/24/12 - Raphael Ketani. I received CAP 44 for EnviroTrac. The bill is DC2023.01-39 for the period 10/29/12 to 11/25/12. The date of the invoice is 12/11/12. The work consisted of project management, project coordination, tabulation of gauging data, review latest data from monitoring event, travel to and from site, well gauging, product recovery, use of light duty vehicle, low value equipment and sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.1/22/13 - Raphael Ketani. I received CAP 45 for EnviroTrac. The bill is DC2023.01-40 for the period 11/26/12 to 12/30/12. The date of the invoice is 1/14/13. The work consisted of project management, project coordination for upcoming activities, work order, generate internal work order, call to technician in the field, tabulation of gauging and product recovery data, review latest data from monitoring event, generate internal report, travel to and from site, gauging of 36 wells, product recovery from 3 wells, replaced 7 absorbent socks, use of light duty vehicle, low value equipment and sonic interface probe, and subcontractors and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.2/27/13 - Raphael Ketani. I received CAP 46 for EnviroTrac. The bill is DC2023.01-41 for the period 12/31/12 to 1/31/31. The date of the invoice is 2/11/13. The work consisted of project management, call to technician in the field, well gauging and product recovery, tabulation of gauging and product recovery data, review latest data and data from last 3 monitoring events, generate internal work order, travel to and from site, gauging of 34 wells, product recovery from 2 wells, replaced 6 absorbent socks, use of light duty vehicle, low value equipment and sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.3/22/13 - Raphael Ketani. I received CAP 47 for EnviroTrac. The bill is DC2023.01-42 for the period 2/1/13 to 2/24/13. The date of the invoice is 3/13/13. The work consisted of project management, prepare internal work order, calls to technician in the field, well gauging and product recovery, calls regarding full drums, calculate product thickness for wells during 2011 and 2012, review and tabulate gauging and product recovery data, review 2011 and 2012 data, edit and prepare site map, generate internal work order, load vehicle, travel to and from site, gauging of 37 wells, use of light duty vehicle, low value equipment and sonic interface probe, and purchase

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supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.5/1/13 - Raphael Ketani. I received CAP 48 for EnviroTrac. The bill is DC2023.01-43 for the period 2/25/13 to 3/31/13. The date of the invoice is 4/15/13. The work consisted of project management, generate internal work order, well gauging, bailing wells, install socks, calls to technician in the field, review and tabulate gauging and product recovery data, respond to emergency call - leaking drum enclosure, calls for removal of drums, load vehicle, travel to and from site, use of light duty vehicle, low value equipment, sonic interface probe, 55 gallon drum and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.5/23/13 - Raphael Ketani. I received CAP 49 for EnviroTrac. The bill is DC2023.01-44 for the period 4/1/13 to 4/28/13. The date of the invoice is 5/14/13. The work consisted of project management, generate internal work order, gauged 33 wells, bailed product from 3 wells, calls to technician in the field, calls to manager of Dunkin Donuts regarding possible garbage issue at the site, calls regarding drum removal, review and tabulate gauging and product recovery data, travel to and from site, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.6/27/13 - Raphael Ketani. I received CAP 50 for EnviroTrac. The bill is DC2023.01-45 for the period 4/29/13 to 5/26/13. The date of the invoice is 5/26/13. The work consisted of project management, generate internal work order, gauged wells, bailed product from wells, calls to technician in the field, call to Dunkin Donuts tenant, review and tabulate gauging and product recovery data, travel to and from site, use of light duty vehicle, low value equipment, sonic interface probe, use of AARCO Environmental subcontractor for product collection services, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.7/29/13 - Raphael Ketani. I received CAP 51 for EnviroTrac. The bill is DC2023.01-46 for the period 5/27/13 to 6/30/13. The date of the invoice is 7/15/13. The work consisted of project management, generate internal work order, gauged 33 wells, bailed product from wells, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, use of light duty vehicle, low value equipment, sonic interface probe, PID meter, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.8/29/13 - Raphael Ketani. I received CAP 52 for EnviroTrac. The bill is DC2023.01-47 for the period 7/1/13 to 7/28/13. The date of the invoice is 8/14/13. The work consisted of project management, generate internal work order, gauged 37 wells, bailed product from wells, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.10/2/13 - Raphael Ketani. I received CAP 53 for EnviroTrac. The bill is DC2023.01-48 for the period 7/29/13 to 8/25/13. The date of the invoice is 9/13/13. The work consisted of project management, generate internal work order, gauged 39 wells, bailed product from wells, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.10/28/13 - Raphael

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Ketani. I received CAP 54 for EnviroTrac. The bill is DC2023.01-49 for the period 8/26/13 to 9/29/13. The date of the invoice is 10/14/13. The work consisted of project management, generate internal work order, gauged 37 wells, bailed product from 3 wells, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.12/4/13 - Raphael Ketani. I received CAP 55 for EnviroTrac. The bill is DC2023.01-50 for the period 9/30/13 to 10/27/13. The date of the invoice is 11/12/13. The work consisted of project management, generate internal work order, gauged 34 wells, bailed product from 1 well, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.12/19/13 - Raphael Ketani. Mr. Lorthioir sent me two pictures of the cover for well MW-87. The cover had been damaged during the snow plowing of the Dunkin Donuts property. He wrote that he would like to fill in the void below ground which used to house equipment for the recovery system and then replace the large well cover with a small round one. I responded back that he should do this.1/6/14 - Raphael Ketani. I received CAP 56 for EnviroTrac. The bill is DC2023.01-51 for the period 10/28/13 to 11/24/13. The date of the invoice is 12/13/13. The work consisted of project management, generate internal work order, gauged wells, bailed product from wells, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, call to landlord, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.1/17/14 - Raphael Ketani. Donna Amoscato of EnviroTrac sent an e-mail with pictures describing and showing a leaking drum. Speedi Dri was applied to the liquid (combination of water and product) which leaked in the drum storage area and which had spread to the sidewalk outside. Ms. Amoscato wrote that the spill was contained. Two pictures show Speedi Dri on the ground. The drum had leaked because it had become frozen. In the future, Ms. Amoscato wrote, the drums will be removed during the winter months. Some of the liquid had entered a vault nearby. I sent an e-mail to Ms. Amoscato stating that the vault had to be opened if it is not a Con Ed vault and cleaned out. If it is a Con Ed vault, then Con Ed must be notified about the incident.2/4/14 - Raphael Ketani. I received CAP 57 for EnviroTrac. The bill is DC2023.01-52 for the period 11/25/13 to 12/29/13. The date of the invoice is 1/15/14. The work consisted of project management, generate internal work order for monitoring event, gauged wells, bailed product from wells, replaced collection socks, review and tabulate gauging and product recovery data, travel to and from site, calls to technician at site, call to landlord, arrangements for repair of well cover, installed new well pad, cleaned up containment area, use of light duty vehicle, low value equipment, sonic interface probe, 55 gallon drum and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.2/11/14 - Raphael Ketani. I reviewed the EnviroTrac Project Status Report dated 2/10/14 for the year 2013. During 2013, the product impacts to the wells were as follows:MW-8A - product during all but 3 weekly visits; product thickness from 0.02’ to 1.31’; MOST IMPACTED well of the monitoring

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arrayMW-8 - product during all but 11 weekly visits; product thickness 0.01' to 0.41'MW-9 - product during 9 visits; 0.01' to 0.07'MW-10A - product during 11 visits; 0.01' to 0.07'MW-31 - product during 11 visits; 0.01' to 0.65'MW-6A - product during 6 visits; 0.01' to 0.47'MW-46 - product during 2 visits (due to locked gate); 0.08' to 0.09'MW-82 - product during 1 visit; 0.02'The other 29 wells never had product and MW-15 was always dry during the year.During 2013, gauging took place at 37 select wells. Wells MW-8A, MW-8 and MW-9 are located a little east of 4th Avenue and along the northern sidewalk for 25th Street. They are the main area for the occurrence of product. EnviroTrac recommends a trial period for EFRing wells MW-8A, MW-8 and MW-9. There would be EFR events every other week for 2 months (a total of 4 events). Then the wells would be gauged for the following 2 months and the data would be evaluated to see whether EFRing is effective in removing the product. Weekly gauging and product removal would continue for the other select wells.3/4/14 - Raphael Ketani. I received CAP 58 for EnviroTrac. The bill is DC2023.01-53 for the period 12/30/13 to 1/31/14. The date of the invoice is 2/11/14. The work consisted of project management, project coordination, generate internal work order, gauged 33 wells, bailed product from wells, replaced collection socks, review and tabulate gauging and product recovery data, create data tables and enter data into them, update CADD figures, draft 2013 summary letter, draft portions of 2013 Annual Report, travel to and from site, calls to field staff at site, call to landlord, e-mail to DEC and upload pictures, cleaned up containment area, use of light duty vehicle, use of heavy duty vehicle, low value equipment, sonic interface probe, 55 gallon drum and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.3/26/14 - Raphael Ketani. I received CAP 59 for EnviroTrac. The bill is DC2023.01-54 for the period 2/1/14 to 2/28/14. The date of the invoice is 3/13/14. The work consisted of project management, project coordination, generate internal work order, gauged wells, bailed product from wells, replaced collection socks, review and tabulate gauging and product recovery data, create data tables and enter data into them, complete 2013 Annual Report and submit for internal review, travel to and from site, calls to field staff at site, generate internal work order, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.5/5/14 - Raphael Ketani. I received CAP 60 for EnviroTrac. The bill is DC2023.01-55 for the period 3/1/14 to 3/31/14. The date of the invoice is 4/17/14. The work consisted of project management, project coordination, generate internal work order, gauged wells, bailed product from wells, replaced collection socks, review and tabulate gauging and product recovery data, create data tables and enter data into them, travel to and from site, calls to field staff at site, generate internal work order, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.5/21/14 - Raphael Ketani. I received an e-mail from Mr. Lorthioir regarding the sudden increase in the thickness of product in well MW-31. Mr. Lorthioir wrote:The attached scan has three items. The first is a hydrograph showing product thickness in well MW-31 for 2013, the second for 2014 (to date). The last is a site plan showing the location of MW-31 and general groundwater flow direction. There was not much product observed in MW-31 in 2013. Only intermittently at

PACIFIC BRANCH (Continued) **U001839490**

the beginning of the year and a small amount (0.2 feet) in October. Since the beginning of 2014, however, and has twice been observed to be 10 inches or thicker. This re-appearance of product in MW-31 is what lead EnviroTrac to request the performance of EFR at the site. It is too early to tell if the EFR events have had the desired effect. If you look at the site plan, you can see that MW-31 is located in a slightly upgradient part of the site. The other wells which have been exhibiting product are MW-8, MW-8A and MW-9. These wells are all located in the sidewalk along 25th Street. These wells, especially MW-8 and MW-8A, have been exhibiting varying amounts of product for the last several years. Wells MW-8, 8A and 9 were located near the former tank locations and, given this, I can understand why they might still exhibit product. But MW-31 is farther away from the former tanks and there was no product observed for quite a while. I know a rising and falling groundwater table can cause the re-appearance of free product, but to go from no product to over 10 inches is, in my opinion, fairly extreme. Also of note, the change in water table elevation has not caused the re-appearance of free product in any of the wells near MW-31. Some of these wells are less than 10 feet away and they should, in my opinion, also be exhibiting free product.My concern is that there could be another site impacting upon the Dunkin Donuts property. I am proposing that we collect product samples from MW-31 and MW-8 and have them analyzed for composition and age. We have been monitoring the upgradient wells on the street (MW-10, 10A and 11), and no product has been observed in them. The possibility exists, however, that petroleum is entering the site from underneath the building adjacent to the site, where there are no upgradient wells.5/23/14 - Raphael Ketani. Mr. Lorthioir sent me an e-mail today. He stated that well VEFRing is taking place today. He remarked that well MW-31 had been free of product most of the year. So, it was surprising that 10 inches of product should suddenly appear. However, MW-8 (next to the subject well) has also often had some product. So Mr. Lorthioir does not believe this is a dumping incident. He added that his staff will knock on doors in order to find out whether someone has a fuel system problem nearby.6/5/14 - Raphael Ketani. I received CAP 61 for EnviroTrac. The bill is DC2023.01-56 for the period 4/1/14 to 4/27/14. The date of the invoice is 5/13/14. The work consisted of project management, project coordination, generate internal work order, gauged wells, VEFR product from wells, review and tabulate gauging and product recovery data, create data tables and enter data into them, travel to and from site, calls to field staff at site, generate internal work order, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies, contracting with Metro Environmental Contracting for providing a vacuum truck for VEFRing the wells. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.6/10/14 - Raphael Ketani. Mr. Lorthioir called again (631) 924-3001. He said that they checked the wells last week that had shown the presence of product and found thick product again in some of the wells. The product was bailed. Mr. Lorthioir commented that he wanted to do two things to help resolve the sudden appearance of the product. One is to contact Mr. Comacho from the NYFD and find out whether the commercial facilities next door have or had fuel oil tanks. The other is to do Kryzinski tests on the wells with product in order to find out how thick the product may be outside the well bores. This test involves bailing out the product from a well and then measuring it every 30 seconds or so to see how

PACIFIC BRANCH (Continued) **U001839490**

fast it comes back. The results are put into a formula and the outside the well thickness measurement is generated. I told Mr. Lorthioir to go ahead with both tasks.Later, Mr. Lorthioir sent me an e-mail as a carbon copy. The e-mail was addressed to Mr. Camacho of the NYFD and asked for his assistance in locating any fuel oil tanks that may be in buildings next to the site.6/12/14 - Raphael Ketani. Mr. Camacho responded to Mr. Lorthioir by e-mail with a list of other places that have tanks near the site.Later, Mr. Lorthioir sent me an e-mail with an attached map highlighting the addresses that Mr. Camacho had included in his list. The highlighted map showed a location at 209 25th Street which was only two properties upgradient from the site. Mr. Lorthioir stated that he thought this property may be the source of the newly appeared product in well MW-31 and the others.6/13/14 - Raphael Ketani. I researched the following properties that are on 25th Street via the Spills database in order to see whether they had or do have spills: 207; 209; 217; 220; and 225. None of these properties appeared in the Spills database. So, all I could assume was that they never had a spill or that they had a spill, but it was unknown to the DEC.Next, I checked the PBS database. The location of 207 25th Street was not listed. As it was not listed on Mr. Camacho's list as ever having had a tank, I assumed that there was little likelihood of a spill coming from this location. I found that the tanks for the locations 220 and 225 25th Street were both registered in the PBS database. However, the tanks at the locations 209 and 217 25th Street had never been registered. I sent an e-mail to Mr. Lorthioir stating that the DEC will knock on doors and see what we can find out about the tank systems at the unregistered properties. Presently, 209 and 217 25th Street are in violation of the PBS regulations. I let Lezsek Zielinski, EE II and head of the PBS Unit, know about the unregistered tanks. He said that he will send someone out to inspect the properties in the very near future.6/19/14 - Raphael Ketani. I spoke with Mr. Zielinski today. He stated that yesterday he had inspected the four facilities in question at 209, 217, 220 and 225 25th Street. He reported that the 220 and 225 25th Street facilities looked fine. Though, the 225 25th Street site may have more USTs than are listed on their PBS registration. So, he will have the owner come in for a meeting to settle this potential PBS violation.However, he told me that the 209 and 217 25th Street facilities have just a complete concrete floor. Mr. Zielinski did not see any remote fill ports, nor any piping that would lead him to believe that USTs were present. The owners stated that they never knew of any USTs below their buildings (though the NYFD records show that tanks were present at least at some time). The DEC doesn't have any spill or PBS violations pertaining to the 209 and 217 locations. So, there doesn't appear to be any leverage that the DEC can use to get the owners to do GPR or electromagnetic surveys in order to possibly find any tanks. I sent an e-mail to Mr. Lorthioir with this information and told him to just continue to collect the product that appears.7/1/14 - Raphael Ketani. Today I received a non-hazardous waste manifest for the disposal of oil contaminated debris at Republic Environmental Systems in Hatfield, Pennsylvania. The representative from the receiving facility signed the document on 6/10/14.7/3/14 - Raphael Ketani. I received CAP 62 for EnviroTrac. The bill is DC2023.01-57 for the period 4/28/14 to 5/25/14. The date of the invoice is 6/11/14. The work consisted of project management, project coordination, generate internal work order, load vehicle, mobilization to site, gauged wells, VEFR product

PACIFIC BRANCH (Continued) **U001839490**

from wells, review and tabulate gauging, product recovery and EFR data, create data tables and enter data into them, create 2013 and 2014 hydrographs for select wells and complete hydrographs, travel to and from site, calls to field staff at site, call to lab regarding doing age dating, e-mail to DEC regarding proposed work, review old reports from DEC regarding product history, review proposal of Triassic Labs regarding age dating oil, e-mail to DEC regarding doing age dating of newly appeared product, generate internal work order and e-mail to DEC, coordinate drum pickup for full absorbent drums, use of light duty vehicle, low value equipment, sonic interface probe, and purchase supplies, contracting with Metro Environmental Contracting for providing a vacuum truck for VEFRing the wells. I found the pay package to be acceptable and notified Steve Karwiel by e-mail.7/15/14 - Austin - This PIN project is being transferred from Ketani to Vought, for porject consolidation and review purposes - end8/5/14-Vought-Contract Payment Package (EnviroTrac)-(6/18/14 thru 6/29/14. Work performed included working on baildown test graphics/data entry and report writing, well monitoring and bailing, sock replacement, review and tabulation of gauging and EFR data, project coordination.8/12/14-Vought-Called and spoke to NYSOAG Karpen and noted that DEC was performing full file review. NYSOAG noted a prior meeting with DEC where there was discussion of possible sources in addition to the Guarino site and the need for investigation of those possible additional sources. NYSOAG noted that Guarino still may be responsible for current onsite contamination if DEC still remediating that same contamination and as such no ISR was needed until additional responsible parties (if any) were found.9/17/14-Vought-Contractor Application for Payment (EnviroTrac)-(6/30/14 thru 7/27/14). Gauged wells and bailed product, replaced absorbent socks, review and tabulation of gauging data, project coordination.10/6/14-Vought-Contractor Application For Payment(EnviroTrac)- (7/28/14 thru 8/31/14). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data, selecting and preparing files for submittal to NYSDEC, project coordination, File review by EnviroTrac at DEC offics from 8/11 thru 8/15, assembly of older data for submission to DEC, review of timeline generated by DEC, project management.11/18/14-Vought-Contractor Application For Payment(EnviroTrac)- (9/1/14 thru 9/28/14). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data, selecting and preparing files for submittal to NYSDEC, project coordination, project management.12/9/14-Vought-Contractor Application For Payment(EnviroTrac)- (9/29/14 thru 10/26/14). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data.12/9/14-Vought-Contractor Application For Payment(EnviroTrac)- (10/27/14 thru 11/30/14). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data, removing broken sock and other debris from MW81/26/15-Vought-Contractor Application For Payment(EnviroTrac)- (12/19/14 thru 1/31/15). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data, project coordination.3/10/15-Vought-Contractor Application For Payment(EnviroTrac)- (12/19/14 thru 1/31/15). Work performed included: Site travel, monitoring and bailing of wells, review and tabulation of product recovery data, project coordination.

PACIFIC BRANCH (Continued) **U001839490**

Remarks: FOUND LEAK ON PLATFORM THROUGH PLATFORM WALL, TA ON SCENE, FD. UNICO CLEANING PLATFORM, LEAKING INTO MANHOLE, CALL BACK - REPONDED BETWEEN 2:00 AND 730PM, SEE FIELD NOTES. CHRIS TOMASELLO NOTIFY TO AL

Material:

Site ID:	266438
Operable Unit ID:	986700
Operable Unit:	01
Material ID:	395069
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	60000
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9108033
Facility Type:	ER
DER Facility ID:	129454
Site ID:	152505
DEC Region:	2
Spill Date:	10/7/1991
Spill Number/Closed Date:	9108033 / 3/7/2006
Spill Cause:	Unknown
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	10/28/1991
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/30/1991
Spill Record Last Update:	3/7/2006
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL C"4/12/04-Vought-Spill transferred from Sullivan to Rommel as

PACIFIC BRANCH (Continued) **U001839490**

per Rommel.refer to 9305122.
Remarks: MAY BE DIESEL - GOING TO SUBWAY. "EAGLE" GAS STATION NEARBY. SAMPLE TAKEN.

Material:
Site ID: 152505
Operable Unit ID: 958492
Operable Unit: 01
Material ID: 420205
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 152505
Operable Unit ID: 958492
Operable Unit: 01
Material ID: 420204
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

J122 **CHURCH OF THE REDEEMER** **NY AST** **A100183051**
SW **24 4TH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.136 mi.
720 ft. **Site 7 of 7 in cluster J**

Relative:
Lower

Actual:
40 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-606402
Program Type: PBS
UTM X: 586312.25444000005
UTM Y: 4504119.8890199997
Expiration Date: 09/04/2019
Site Type: Religious Building (Church, Synagogue, Mosque, Temple, etc.)

Affiliation Records:
Site Id: 28265
Affiliation Type: Mail Contact
Company Name: HYDROTECH ENVIRONMENTAL CORP
Contact Type: Not reported
Contact Name: Not reported

CHURCH OF THE REDEEMER (Continued) **A100183051**

Address1:	77 ANKAY DRIVE
Address2:	SUITE G
City:	HAUPPAGE
State:	NY
Zip Code:	11788
Country Code:	001
Phone:	(631) 462-5866
EMail:	CPUINONEZ@HTECORP.INFO
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/11/2015

Site Id:	28265
Affiliation Type:	On-Site Operator
Company Name:	CHURCH OF THE REDEEMER
Contact Type:	Not reported
Contact Name:	CHURCH OF THE REDEEMER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 941-1000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/11/2015

Site Id:	28265
Affiliation Type:	Emergency Contact
Company Name:	561 PACIFIC LLC
Contact Type:	Not reported
Contact Name:	STEVE DWECK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 941-1000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/11/2015

Site Id:	28265
Affiliation Type:	Facility Owner
Company Name:	561 PACIFIC LLC
Contact Type:	AUTHORIZED REP.
Contact Name:	JONATHAN NACHMAN
Address1:	1407 BROADWAY #3805
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10018
Country Code:	001

CHURCH OF THE REDEEMER (Continued) **A100183051**

Phone:	(212) 575-2442
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	2/11/2015

Tank Info:

Tank Number:	001
Tank Id:	61378
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
J05 - Dispenser - On Site Heating System (Supply/Return)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
I01 - Overfill - Float Vent Valve
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	1500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	01/12/2015
Register:	True
Modified By:	NTFREEMA
Last Modified:	02/11/2015
Material Name:	#2 Fuel Oil (On-Site Consumption)

P123 **CON EDISON MANHOLE 69587** **RCRA NonGen / NLR** **1010327682**
NNW **FULTON AVE & ASHLAND PL** **NY MANIFEST** **NYP004148151**
1/8-1/4 **BROOKLYN, NY 11203**
0.138 mi.
726 ft. **Site 1 of 2 in cluster P**

Relative:
Lower

Actual:
36 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/11/2007
Facility name:	CON EDISON MANHOLE 69587
Facility address:	FULTON AVE & ASHLAND PL BROOKLYN, NY 11203
EPA ID:	NYP004148151
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	PAUL WALSH
Contact address:	4 IRVING PL, RM 828

CON EDISON MANHOLE 69587 (Continued) **1010327682**

NEW YORK, NY 10003
Contact country: US
Contact telephone: (212) 580-8383
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 04/10/2007
Site name: CON EDISON
Classification: Not a generator, verified

Date form received by agency: 04/09/2007
Site name: CON EDISON
Classification: Unverified

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004148151
Country: USA
Location Address 1: FULTON AVE & ASHLAND PL
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: Not reported
Location Zip Code 4: Not reported

Mailing Info:
Name: CONSOLIDATED EDISON
Contact: FRANKLYN MURRAY
Address: 4 IRVING PL RM 828
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-2808

Manifest:

Document ID: Not reported

CON EDISON MANHOLE 69587 (Continued) **1010327682**

Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	02/13/2007
Trans1 Recv Date:	02/13/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/22/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004148151
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	50
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001436013FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

P124 **CON EDISON MANHOLE 1835** **RCRA NonGen / NLR** **1014926504**
NNW **ASHLAND PL & FULTON ST SE COR** **NJ MANIFEST** **NYP004242756**
1/8-1/4 **BROOKLYN, NY 11201** **NY MANIFEST**
0.138 mi.
727 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
36 ft.

RCRA NonGen / NLR:

Date form received by agency:	11/04/2011
Facility name:	CON EDISON MANHOLE 1835
Facility address:	ASHLAND PL & FULTON ST SE COR BROOKLYN, NY 11201
EPA ID:	NYP004242756
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	DOMINICK TURITTO
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-5194
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

CON EDISON MANHOLE 1835 (Continued) **1014926504**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	10/05/2011
Site name:	CON EDISON MANHOLE 1835
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NJ MANIFEST:

EPA Id:	NYP004242756
Mail Address:	4 IRVING PL, RM 828
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	DOMINICK TURITTO
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	007019334JJK
EPA ID:	NYP004242756
Date Shipped:	10/5/2011
TSDF EPA ID:	NJD002200046
Transporter EPA ID:	NYD000706218
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported

CON EDISON MANHOLE 1835 (Continued) **1014926504**

Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	CONSOLIDATED EDISON CO OF NY
Transporter-1 EPA Facility Name:	CONSOLIDATED EDISON OF NY
TSDF EPA Facility Name:	CYCLE CHEM INC
QTY Units:	kilograms
Transporter SEQ ID:	1.00
Transporter-1 Date:	10/5/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	10/14/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H141
Quantity:	824.00 kilograms

NY MANIFEST:

EPA ID:	NYP004242756
Country:	USA
Location Address 1:	SEC FULTON ST & ASHLAND PL
Location Address 2:	STRUCTURE 1835
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	CONSOLIDATED EDISON
Address:	4 IRVING PLACE ROOM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

CON EDISON MANHOLE 1835 (Continued) **1014926504**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD000706218
Trans2 State ID:	Not reported
Generator Ship Date:	10/05/2011
Trans1 Recv Date:	10/05/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/14/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004242756
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	824.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007019334JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

L125
NE
1/8-1/4
0.140 mi.
737 ft.

81 LAFAYETTE AVE
BROOKLYN, NY 11217

Site 10 of 13 in cluster L

EDR US Hist Cleaners **1015097928**
N/A

Relative:
Higher

Actual:
56 ft.

EDR Historical Cleaners:

Name:	WASH & PLAY LOTTO LAUNDROMAT
Year:	2000
Address:	81 LAFAYETTE AVE
Name:	WASH & PLAY LOTTO LAUNDROMAT
Year:	2002
Address:	81 LAFAYETTE AVE
Name:	WASH & PLAY LOTTO LAUNDROMAT
Year:	2003
Address:	81 LAFAYETTE AVE
Name:	WASH & PLAY LOTTO LAUNDROMAT
Year:	2010
Address:	81 LAFAYETTE AVE

O126 **568 PACIFIC ST** **NY AST** **U003392606**
SSW **568 PACIFIC ST** **NY HIST AST** **N/A**
1/8-1/4 **BKLYN, NY 11217**
0.140 mi.
739 ft. **Site 2 of 2 in cluster O**

Relative:
Lower

Actual:
41 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-207063
Program Type:	PBS
UTM X:	586338.39546000003
UTM Y:	4504108.1361600002
Expiration Date:	10/23/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	7329
Affiliation Type:	Facility Owner
Company Name:	C/O MARK SCHARFMAN
Contact Type:	OWNER
Contact Name:	MARK SCHARFMAN
Address1:	111 NORTH CENTRAL PARK AVE, SUITE #400
Address2:	Not reported
City:	HARTSDALE
State:	NY
Zip Code:	10530
Country Code:	001
Phone:	(914) 997-2435
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	10/24/2012

Site Id:	7329
Affiliation Type:	Mail Contact
Company Name:	DEAN REALTY
Contact Type:	Not reported
Contact Name:	MARK SCHARFMAN
Address1:	111 NORTH CENTRAL PARK AVE,
Address2:	#400
City:	HARTSDALE
State:	NY
Zip Code:	10530
Country Code:	001
Phone:	(914) 997-2435
EMail:	EMUNROE@APTSNY.COM
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	10/24/2012

Site Id:	7329
Affiliation Type:	On-Site Operator
Company Name:	568 PACIFIC ST
Contact Type:	Not reported
Contact Name:	HECTOR LEVIA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

568 PACIFIC ST (Continued) **U003392606**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 857-2459
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	7329
Affiliation Type:	Emergency Contact
Company Name:	C/O MARK SCHARFMAN
Contact Type:	Not reported
Contact Name:	LANCE KLEINBERG
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(914) 980-0500
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	10/24/2012

Tank Info:

Tank Number:	001
Tank Id:	24943
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1950
Capacity Gallons:	2500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	msbaptis

568 PACIFIC ST (Continued) **U003392606**

Last Modified: 08/20/2007
Material Name: #2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-207063
SWIS Code:	6101
Operator:	HECTOR LEIVA
Facility Phone:	(718) 857-5047
Facility Addr2:	568 PACIFIC ST
Facility Type:	APARTMENT BUILDING
Emergency:	MARK SCHARFMAN
Emergency Tel:	(212) 799-0497
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	C/O MARK SCHARFMANR
Owner Address:	280 NORTH CENTRAL PARK AVE, SUITE #235
Owner City,St,Zip:	HARTSDALE, NY 10530
Federal ID:	Not reported
Owner Tel:	(914) 997-2435
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Contact:	MARK SCHARFMAN
Mailing Name:	DEAN REALTY
Mailing Address:	280 NORTH CENTRAL PARK AVE, SUITE #235
Mailing Address 2:	Not reported
Mailing City,St,Zip:	HARTSDALE, NY 10530
Mailing Telephone:	(914) 997-2435
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/27/2000
Expiration:	10/23/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	2500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel

568 PACIFIC ST (Continued) **U003392606**

Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

N127 **CON EDISON MANHOLE 2597** **RCRA NonGen / NLR** **1014926344**
West **3RD AVE & ATLANTIC AVE SW COR** **NJ MANIFEST** **NYP004240990**
1/8-1/4 **BROOKLYN, NY 11201** **NY MANIFEST**
0.143 mi.
756 ft. **Site 5 of 5 in cluster N**

Relative:
Lower

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/29/2011
Facility name:	CON EDISON MANHOLE 2597
Facility address:	3RD AVE & ATLANTIC AVE SW COR BROOKLYN, NY 11201
EPA ID:	NYP004240990
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	WILLIAM HOUSE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 802-5194
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CON EDISON MANHOLE 2597 (Continued) **1014926344**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/30/2011
Site name: CON EDISON MANHOLE 2597
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NJ MANIFEST:
EPA Id: NYP004240990
Mail Address: 4 IRVING PL, RM 828
Mail City/State/Zip: NEW YORK, NY 10003
Facility Phone: Not reported
Emergency Phone: Not reported
Contact: WILLIAM HOUSE
Comments: Not reported
SIC Code: Not reported
County: NY047
Municipal: Not reported
Previous EPA Id: Not reported
Gen Flag: Not reported
Trans Flag: Not reported
TSDF Flag: Not reported
Name Change: Not reported
Date Change: Not reported

Manifest:
Manifest Number: 007019337JJK
EPA ID: NYP004240990
Date Shipped: 9/4/2011
TSDF EPA ID: NJD002200046
Transporter EPA ID: NYD000706218
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: Not reported
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: Not reported
Generator EPA Facility Name: CONSOLIDATED EDISON CO OF NY MH #2597
Transporter-1 EPA Facility Name: CONSOLIDATED EDISON OF NY
TSDF EPA Facility Name: CYCLE CHEM INC
QTY Units: kilograms

CON EDISON MANHOLE 2597 (Continued) **1014926344**

Transporter SEQ ID:	1.00
Transporter-1 Date:	9/4/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	9/8/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H141
Quantity:	1,337.00 kilograms

NY MANIFEST:

EPA ID:	NYP004240990
Country:	USA
Location Address 1:	ATLANTIC AVE
Location Address 2:	3RD AVE
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONED
Contact:	CONED
Address:	4 IRVING PLACE
Address 2:	15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	09/03/2011
Trans1 Recv Date:	09/03/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/06/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004240990
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported

CON EDISON MANHOLE 2597 (Continued) **1014926344**

TSDF ID:	NYD980593636
Waste Code:	Not reported
Quantity:	200.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003203343FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Q128 **CONSOLIDATED EDISON** **NY MANIFEST** **S108980706**
WSW **ATLANTIC AVE & 3RD AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11201**
0.144 mi.
761 ft. **Site 1 of 7 in cluster Q**

Relative:
Lower

Actual:
37 ft.

NY MANIFEST:

EPA ID:	NYP004156097
Country:	USA
Location Address 1:	ATLANTIC AVE & 3rd AVE
Location Address 2:	MH 2594
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLYN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2008
Trans1 Recv Date:	01/28/2008
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/29/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

CONSOLIDATED EDISON (Continued) **S108980706**

Generator EPA ID:	NYP004156097
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	350.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	4.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001437370FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

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129 NNE 1/8-1/4 0.146 mi. 769 ft. **A&C ASSOCIATES** **NY AST** **U003384375**
63 FORT GREENE PLACE **NY HIST AST** **N/A**
BROOKLYN, NY 11217

Relative: Lower

Actual: 42 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-098671
Program Type:	PBS
UTM X:	586482.25006999995
UTM Y:	4504604.9460000005
Expiration Date:	03/24/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2892
Affiliation Type:	Facility Owner
Company Name:	A&C ASSOCIATES
Contact Type:	PARTNER
Contact Name:	MORRIS ALMILEK
Address1:	11 LOTUS ST
Address2:	Not reported
City:	CEDARHURST
State:	NY
Zip Code:	11516
Country Code:	001
Phone:	(516) 374-3279
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER

A&C ASSOCIATES (Continued) **U003384375**

Date Last Modified: 12/20/2006

Site Id: 2892
Affiliation Type: Mail Contact
Company Name: A&C ASSOCIATES
Contact Type: Not reported
Contact Name: Not reported
Address1: 11 LOTUS ST
Address2: Not reported
City: CEDARHURST
State: NY
Zip Code: 11516
Country Code: 001
Phone: (516) 374-3279
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 2892
Affiliation Type: On-Site Operator
Company Name: A&C ASSOCIATES
Contact Type: Not reported
Contact Name: A&C ASSOCIATES
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (516) 374-3279
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 2892
Affiliation Type: Emergency Contact
Company Name: A&C ASSOCIATES
Contact Type: Not reported
Contact Name: ANGEL CASTRO
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 999
Phone: (718) 243-1764
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 12/20/2006

Tank Info:

Tank Number: 001
Tank Id: 3670

A&C ASSOCIATES (Continued) **U003384375**

Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/1950
Capacity Gallons: 1500
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: MSBAPTIS
Last Modified: 02/14/2012
Material Name: #2 Fuel Oil (On-Site Consumption)

HIST AST:
PBS Number: 2-098671
SWIS Code: 6101
Operator: A&C ASSOCIATES
Facility Phone: (516) 374-3279
Facility Addr2: 63 FORT GREENE PLACE
Facility Type: APARTMENT BUILDING
Emergency: ANGEL CASTRO
Emergency Tel: (718) 243-3279
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: A&C ASSOCIATES
Owner Address: 11 LOTUS ST
Owner City,St,Zip: CEDARHURST, NY 11516
Federal ID: Not reported
Owner Tel: (516) 374-3279
Owner Type: Corporate/Commercial
Owner Subtype: Not reported
Mailing Contact: Not reported
Mailing Name: A&C ASSOCIATES
Mailing Address: 11 LOTUS ST
Mailing Address 2: Not reported
Mailing City,St,Zip: CEDARHURST, NY 11516

A&C ASSOCIATES (Continued) **U003384375**

Mailing Telephone:	(516) 374-3279
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	12/14/2001
Expiration:	03/24/2007
Renew Flag:	False
Renew Date:	11/13/2001
Total Capacity:	1500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	1500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	9
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

R130 ENE 1/8-1/4 0.146 mi. 770 ft.

MTA NYCT - LAFAYETTE AVE STATION - A C LINES
S PORTLAND AVE & FULTON ST
BROOKLYN, NY 11217

Site 1 of 4 in cluster R

RCRA-SQG
NY MANIFEST
NJ MANIFEST

1012186959
NYR000168237

Relative: Higher

Actual: 64 ft.

RCRA-SQG:

Date form received by agency:	09/09/2009
Facility name:	MTA NYCT - LAFAYETTE AVE STATION - A C LINES
Facility address:	S PORTLAND AVE & FULTON ST BROOKLYN, NY 11217
EPA ID:	NYR000168237
Mailing address:	BROADWAY 5TH FLOOR 503 NEW YORK, NY 10004
Contact:	GERALD LEZEAU
Contact address:	BROADWAY 5TH FLOOR 503 NEW YORK, NY 10004
Contact country:	US
Contact telephone:	(646) 252-3535
Contact email:	GERALD.LEZEAU@NYCT.COM
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	MTA NYCT
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1968
Owner/Op end date:	Not reported

Owner/operator name:	MTA NYCT
Owner/operator address:	BROADWAY 5TH FLOOR 503 NEW YORK, NY 10004
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	03/01/1968
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

MTA NYCT - LAFAYETTE AVE STATION - A C LINES (Continued) **1012186959**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D008
. Waste name:	LEAD

Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYR000168237
Country:	USA
Location Address 1:	S PORTLAND AVE & FULTON ST
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	MTA NYCT - LAFAYETTE AVE STATION - A C LINES
Contact:	ARTHUR SANTORA
Address:	2 BROADWAY ROOM A27.64
City/State/Zip:	NEW YORK, NY 10004
Country:	USA
Phone:	646-252-5777

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	03/22/2010
Trans1 Recv Date:	03/22/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/22/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000168237
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	500.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	000199614WAS
Import Ind:	N
Export Ind:	N

MTA NYCT - LAFAYETTE AVE STATION - A C LINES (Continued) **1012186959**

Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD046765574
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2010
Trans1 Recv Date:	06/17/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/17/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000168237
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	000067398WAS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

NJ MANIFEST:

EPA Id:	NYR000168237
Mail Address:	BROADWAY 5TH FLOOR 503
Mail City/State/Zip:	NEW YORK, NY 10004
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	GERALD LEZEAU
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported

MTA NYCT - LAFAYETTE AVE STATION - A C LINES (Continued) **1012186959**

Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	000199614WAS
EPA ID:	NYR000168237
Date Shipped:	03/22/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	03/22/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	03/22/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	500 P

Manifest Number:	000067398WAS
EPA ID:	NYR000168237
Date Shipped:	06/17/2010

MTA NYCT - LAFAYETTE AVE STATION - A C LINES (Continued) **1012186959**

TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NYD046765574
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	06/17/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	06/17/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10004
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	100 P

Q131 **520 ATLANTIC AVE** **NY UST** **U003200560**
West **520 ATLANTIC AVE** **NY HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.146 mi.
772 ft. **Site 2 of 7 in cluster Q**

Relative:
Lower

Actual:
37 ft.

UST:

Id/Status:	2-603091 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	08/05/2002

520 ATLANTIC AVE (Continued) **U003200560**

UTM X: 586145.54995000002
UTM Y: 4504304.2882599998
Site Type: Retail Gasoline Sales

Affiliation Records:

Site Id: 25044
Affiliation Type: Facility Owner
Company Name: EOR 71 OF NEW YORK INC
Contact Type: Not reported
Contact Name: Not reported
Address1: 562 FIFTH AVENUE, 2ND FLOOR
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 626-1165
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 25044
Affiliation Type: Mail Contact
Company Name: EOR 71 OF NEW YORK INC
Contact Type: Not reported
Contact Name: MIRON ZOHAR
Address1: 562 FIFTH AVENUE, 2ND FLOOR
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10036
Country Code: 001
Phone: (212) 626-1165
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 25044
Affiliation Type: On-Site Operator
Company Name: 520 ATLANTIC AVE
Contact Type: Not reported
Contact Name: MIRON ZOHAR
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 626-1165
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 25044
Affiliation Type: Emergency Contact

520 ATLANTIC AVE (Continued) **U003200560**

Company Name:	EOR 71 OF NEW YORK INC
Contact Type:	Not reported
Contact Name:	MIRON ZOHAR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 626-1165
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	52981
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	002
Tank ID:	52982
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/01/1997
Registered:	True

520 ATLANTIC AVE (Continued) **U003200560**

Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 9999
Common Name of Substance: Other

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 003
Tank ID: 52983
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 08/01/1997
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 9999
Common Name of Substance: Other

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 004
Tank ID: 52984

520 ATLANTIC AVE (Continued) **U003200560**

Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	08/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	005
Tank ID:	52985
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1080
Install Date:	Not reported
Date Tank Closed:	08/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)

520 ATLANTIC AVE (Continued) **U003200560**

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	006
Tank ID:	52986
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1080
Install Date:	Not reported
Date Tank Closed:	08/01/1997
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

HIST UST:

PBS Number:	2-603091
SPDES Number:	Not reported
Emergency Contact:	MIRON ZOHAR
Emergency Telephone:	(212) 626-1165
Operator:	MIRON ZOHAR
Operator Telephone:	(212) 626-1165
Owner Name:	EOR 71 OF NEW YORK INC
Owner Address:	562 FIFTH AVENUE, 2ND FLOOR
Owner City,St,Zip:	NEW YORK, NY 10036
Owner Telephone:	(212) 626-1165
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	EOR 71 OF NEW YORK INC
Mailing Address:	562 FIFTH AVENUE, 2ND FLOOR
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10036
Mailing Contact:	MIRON ZOHAR
Mailing Telephone:	(212) 626-1165
Owner Mark:	First Owner
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.

520 ATLANTIC AVE (Continued) **U003200560**

Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	Not reported
Expiration Date:	08/05/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	0
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	0
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	002
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550

520 ATLANTIC AVE (Continued) **U003200560**

Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	003
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	004
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	550
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None

520 ATLANTIC AVE (Continued) **U003200560**

Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	005
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1080
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	006
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1080
Product Stored:	UNKNOWN
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	GALVANIZED STEEL

520 ATLANTIC AVE (Continued) **U003200560**

Pipe Internal:	None
Pipe External:	None
Second Containment:	Diking
Leak Detection:	None
Overfill Prot:	None
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	08/01/1997
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

S132 **NYS DSAS TESTING & RESEARCH LAB** **RCRA NonGen / NLR** **1000111259**
East **80 HANSON PL** **FINDS** **NYD982539777**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.148 mi.
784 ft. **Site 1 of 2 in cluster S**

Relative:
Higher

Actual:
66 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYS DSAS TESTING & RESEARCH LAB
Facility address:	80 HANSON PL BROOKLYN, NY 112171506
EPA ID:	NYD982539777
Mailing address:	HANSON PL BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	HANSON PL BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	STATE OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	STATE OF NEW YORK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private

NYS DSAS TESTING & RESEARCH LAB (Continued) **1000111259**

Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYS DSAS TESTING & RESEARCH LAB
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: NYS DSAS TESTING & RESEARCH LAB
Classification: Not a generator, verified

Date form received by agency: 07/26/1988
Site name: NYS DSAS TESTING & RESEARCH LAB
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U080
. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

Violation Status: No violations found

NYS DSAS TESTING & RESEARCH LAB (Continued) **1000111259**

Evaluation Action Summary:

Evaluation date:	09/20/1998
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

FINDS:

Registry ID: 110004424347

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD982539777
Country:	USA
Location Address 1:	80 HANSON PL
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	12203
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYS DIVISION OF SUBSTANCE ABUSE
Contact:	NYS DIVISION OF SUBSTANCE ABUSE
Address:	80 HANSON PLACE
City/State/Zip:	BROOKLYN, NY 12203
Country:	USA
Phone:	718-636-0400

Manifest:

Document ID:	NYA7677441
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	MM5929
Trans2 State ID:	Not reported
Generator Ship Date:	10/05/1989
Trans1 Recv Date:	10/05/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/05/1989
Part A Recv Date:	11/27/1989
Part B Recv Date:	10/23/1989
Generator EPA ID:	NYD982539777
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00580
Units:	P - Pounds

NYS DSAS TESTING & RESEARCH LAB (Continued) **1000111259**

Number of Containers:	005
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	01200
Units:	P - Pounds
Number of Containers:	010
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	01820
Units:	P - Pounds
Number of Containers:	014
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1989

Document ID:	NYA7677432
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	MM5929
Trans2 State ID:	Not reported
Generator Ship Date:	10/04/1989
Trans1 Recv Date:	10/04/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/04/1989
Part A Recv Date:	11/22/1989
Part B Recv Date:	10/23/1989
Generator EPA ID:	NYD982539777
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	03900
Units:	P - Pounds
Number of Containers:	018
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	02060
Units:	P - Pounds
Number of Containers:	011
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES

NYS DSAS TESTING & RESEARCH LAB (Continued) **1000111259**

Quantity:	00450
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00250
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1989

Document ID:	NYA7677414
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	MM5929
Trans2 State ID:	Not reported
Generator Ship Date:	10/05/1989
Trans1 Recv Date:	10/05/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/05/1989
Part A Recv Date:	11/27/1989
Part B Recv Date:	10/23/1989
Generator EPA ID:	NYD982539777
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00160
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1989

L133 **EDR US Hist Cleaners** **1015101085**
NE **85 LAFAYETTE AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.149 mi.
786 ft. **Site 11 of 13 in cluster L**

Relative:
Higher

Actual:
57 ft.

EDR Historical Cleaners:

Name:	FRENCH GARMENT CLEANERS
Year:	2003
Address:	85 LAFAYETTE AVE
Name:	FRENCH GARMENTS CLEANERS CO
Year:	2006
Address:	85 LAFAYETTE AVE
Name:	FRENCH GARMENTS CLEANERS CO
Year:	2007
Address:	85 LAFAYETTE AVE

(Continued) **1015101085**

Name: FRENCH GARMENT CLEANERS
Year: 2008
Address: 85 LAFAYETTE AVE

L134 NE 1/8-1/4 0.149 mi. 786 ft. | **FRENCH GARMENT CLEANERS CO**
85 LAFAYETTE ST
BROOKLYN, NY 11217 | **RCRA-CESQG** **1000308266**
NY MANIFEST **NYD981077365**

Site 12 of 13 in cluster L

Relative: Higher

Actual: 57 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	FRENCH GARMENT CLEANERS CO
Facility address:	85 LAFAYETTE ST BROOKLYN, NY 11217
EPA ID:	NYD981077365
Mailing address:	LAFAYETTE ST BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	LAFAYETTE ST BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: FRENCH GARMENT CLEANERS CO
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/14/1999
Site name: FRENCH GARMENT CLEANERS CO
Classification: Small Quantity Generator

Date form received by agency: 04/15/1985
Site name: FRENCH GARMENT CLEANERS CO
Classification: Large Quantity Generator

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD981077365
Country: USA
Location Address 1: 85 LAFA YETTE AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Mailing Info:

Name:	FRENCH GARMENT CLNRS CO
Contact:	FRENCH GARMENT CLNRS CO
Address:	85 LAFA YETTE AVENUE
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	718-852-7397

Manifest:

Document ID:	NYC6664476
Manifest Status:	Not reported
Trans1 State ID:	NJXAB6132
Trans2 State ID:	NJT51G9T
Generator Ship Date:	03/01/2002
Trans1 Recv Date:	03/01/2002
Trans2 Recv Date:	03/08/2002
TSD Site Recv Date:	03/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC6898375
Manifest Status:	Not reported
Trans1 State ID:	NY9485JE
Trans2 State ID:	713TYLNJ
Generator Ship Date:	12/13/2002
Trans1 Recv Date:	12/13/2002
Trans2 Recv Date:	12/20/2002
TSD Site Recv Date:	12/23/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Document ID:	NYC5512252
Manifest Status:	Not reported
Trans1 State ID:	JE550NY
Trans2 State ID:	T54228NJ
Generator Ship Date:	01/07/1999
Trans1 Recv Date:	01/07/1999
Trans2 Recv Date:	01/13/1999
TSD Site Recv Date:	01/19/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

Document ID:	NYC4052518
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	GF2859NY
Trans2 State ID:	AR004
Generator Ship Date:	04/02/1996
Trans1 Recv Date:	04/02/1996
Trans2 Recv Date:	04/08/1996
TSD Site Recv Date:	04/09/1996
Part A Recv Date:	04/10/1996
Part B Recv Date:	05/01/1996
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2504024
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	08/27/1993
Trans1 Recv Date:	08/27/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/27/1993
Part A Recv Date:	10/13/1993

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Part B Recv Date:	09/24/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2102534
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	01/14/1993
Trans1 Recv Date:	01/14/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/14/1993
Part A Recv Date:	01/26/1993
Part B Recv Date:	01/26/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2678051
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	11/18/1993
Trans1 Recv Date:	11/18/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/18/1993
Part A Recv Date:	12/06/1993
Part B Recv Date:	12/02/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYS2582954
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	12/15/1993
Trans1 Recv Date:	12/15/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/15/1993
Part A Recv Date:	/ /
Part B Recv Date:	03/25/1994
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2462185
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	07/30/1993
Trans1 Recv Date:	07/30/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/30/1993
Part A Recv Date:	10/08/1993
Part B Recv Date:	08/11/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2581424
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Trans2 State ID:	Not reported
Generator Ship Date:	09/23/1993
Trans1 Recv Date:	09/23/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/23/1993
Part A Recv Date:	10/26/1993
Part B Recv Date:	10/05/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2337388
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	06/03/1993
Trans1 Recv Date:	06/03/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/03/1993
Part A Recv Date:	06/16/1993
Part B Recv Date:	06/14/1993
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC0586102
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	LP3931NY
Trans2 State ID:	Not reported
Generator Ship Date:	11/13/1990
Trans1 Recv Date:	11/13/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/13/1990
Part A Recv Date:	01/03/1991
Part B Recv Date:	12/13/1990
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYA9346544
Manifest Status:	Completed copy
Trans1 State ID:	AY9381(NY
Trans2 State ID:	Not reported
Generator Ship Date:	02/28/1989
Trans1 Recv Date:	02/28/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/28/1989
Part A Recv Date:	03/08/1989
Part B Recv Date:	03/08/1989
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9431368
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	05/05/1989
Trans1 Recv Date:	05/05/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/05/1989
Part A Recv Date:	06/22/1989
Part B Recv Date:	05/15/1989
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00270
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Year: 1989

Document ID: NYC0004634
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 01/02/1990
Trans1 Recv Date: 01/02/1990
Trans2 Recv Date: / /
TSD Site Recv Date: 01/02/1990
Part A Recv Date: 01/22/1990
Part B Recv Date: 01/08/1990
Generator EPA ID: NYD981077365
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00270
Units: P - Pounds
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1990

Document ID: NYA9394389
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: LP3931NY
Trans2 State ID: Not reported
Generator Ship Date: 04/05/1989
Trans1 Recv Date: 04/05/1989
Trans2 Recv Date: / /
TSD Site Recv Date: 04/05/1989
Part A Recv Date: 05/05/1989
Part B Recv Date: 04/13/1989
Generator EPA ID: NYD981077365
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1989

Document ID: NYA8677686
Manifest Status: Completed copy
Trans1 State ID: NY16549GW
Trans2 State ID: Not reported
Generator Ship Date: 02/03/1988
Trans1 Recv Date: 02/03/1988

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/03/1988
Part A Recv Date:	02/17/1988
Part B Recv Date:	02/08/1988
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9123873
Manifest Status:	Completed copy
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	11/08/1988
Trans1 Recv Date:	11/08/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/08/1988
Part A Recv Date:	11/22/1988
Part B Recv Date:	11/16/1988
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9007536
Manifest Status:	Completed copy
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	08/16/1988
Trans1 Recv Date:	08/16/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/16/1988
Part A Recv Date:	08/30/1988
Part B Recv Date:	08/22/1988
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV

FRENCH GARMENT CLEANERS CO (Continued) **1000308266**

Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYC6878586
Manifest Status:	Not reported
Trans1 State ID:	NYGF1411
Trans2 State ID:	NJ044
Generator Ship Date:	10/10/2002
Trans1 Recv Date:	10/10/2002
Trans2 Recv Date:	10/17/2002
TSD Site Recv Date:	10/18/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981077365
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

L135
NE
1/8-1/4
0.149 mi.
786 ft.

FRENCH GARMENTS CLEANERS
85 LAFAYETTE AVE
BROOKLYN, NY 11217

NY DRYCLEANERS **S110246637**
N/A

Site 13 of 13 in cluster L

Relative:
Higher

Actual:
57 ft.

DRYCLEANERS:

Facility ID:	2-6103-00260
Phone Number:	718-852-7397
Region:	Not reported
Registration Effective Date:	7/15/2002 13:50:20:74
Inspection Date:	06AUG16
Install Date:	98/05
Drop Shop:	Not reported
Shutdown:	Y
Alternate Solvent:	Not reported
Current Business:	Not reported

M136 **THE HUB** **NY AST** **A100395473**
WNW **345 SCHERMERHORN STREET AKA 350 LIVINGSTON STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.150 mi.
790 ft. **Site 11 of 11 in cluster M**

Relative:
Lower

Actual:
40 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-243817
Program Type:	PBS
UTM X:	586113.72837999999
UTM Y:	4504495.0756599996
Expiration Date:	05/30/2017
Site Type:	Other

Affiliation Records:

Site Id:	9407
Affiliation Type:	Mail Contact
Company Name:	.W. GROSSER CONSULTING INC.
Contact Type:	Not reported
Contact Name:	DEREK ERSBAK
Address1:	630 JOHNSON AVENUE
Address2:	SUITE 7
City:	BOHEMIA
State:	NY
Zip Code:	11716
Country Code:	001
Phone:	(631) 589-6353
EMail:	DEREKE@PWGROSSER.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/21/2014

Site Id:	9407
Affiliation Type:	On-Site Operator
Company Name:	CENTRAL BROOKLYN MEDICAL GROUP
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	9407
Affiliation Type:	Emergency Contact
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	DOUGLAS C. STEINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported

THE HUB (Continued) **A100395473**

State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 858-1600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	9407
Affiliation Type:	Facility Owner
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	15 WASHINGTON AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11205
Country Code:	001
Phone:	(718) 858-1600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/21/2014

Tank Info:

Tank Number:	004
Tank Id:	253357

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	08/19/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/21/2014

THE HUB (Continued) **A100395473**

Material Name: #2 Fuel Oil (On-Site Consumption)

Tank Number: 005
Tank Id: 253358

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 08/19/2013
Register: True
Modified By: NRLOMBAR
Last Modified: 10/21/2014
Material Name: #2 Fuel Oil (On-Site Consumption)

Tank Number: 006
Tank Id: 253359

Equipment Records:

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location: 3
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 275
Tightness Test Method: NN

THE HUB (Continued) **A100395473**

Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/23/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/21/2014
Material Name:	#2 Fuel Oil (On-Site Consumption)

Tank Number:	007
Tank Id:	253360

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
F00 - Pipe External Protection - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/23/2014
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/21/2014
Material Name:	#2 Fuel Oil (On-Site Consumption)

S137 **CON EDISON MANHOLE: 1968** **RCRA NonGen / NLR** **1016967151**
ESE **140 N PORTLAND AVE** **NY MANIFEST** **NYP004407748**
1/8-1/4 **BROOKLYN, NY 11217**
0.156 mi.
825 ft. **Site 2 of 2 in cluster S**

Relative:
Higher

Actual:
64 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/17/2014
Facility name:	CON EDISON MANHOLE: 1968
Facility address:	140 N PORTLAND AVE BROOKLYN, NY 11217
EPA ID:	NYP004407748
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported

CON EDISON MANHOLE: 1968 (Continued) **1016967151**

Contact telephone: (212) 460-3770
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 12/17/2013
Site name: CON EDISON MANHOLE: 1968
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004407748
Country: USA
Location Address 1: 140 NORTHPORTLAND AVE
Location Address 2: MH1968
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CON EDISON
Contact: CON EDISON
Address: 4 IRVING PLACE
Address 2: 15TH FL
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: Not reported

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 12/18/2013
Trans1 Recv Date: 12/18/2013

CON EDISON MANHOLE: 1968 (Continued) **1016967151**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/19/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004407748
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	30
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	004807381FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

T138 **EDR US Hist Auto Stat** **1015276045**
South **179 FLATBUSH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.157 mi.
831 ft. **Site 1 of 6 in cluster T**

Relative:
Lower

Actual:
44 ft.

EDR Historical Auto Stations:

Name:	FLAT & FIFTH AUTO CENTER INCORPORATED
Year:	1999
Address:	179 FLATBUSH AVE
Name:	FLAT & FIFTH AUTO CENTER INCORPORATED
Year:	2000
Address:	179 FLATBUSH AVE

T139 **179 FLATBUSH AVE** **NY UST** **U004129101**
South **179 FLATBUSH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.157 mi.
831 ft. **Site 2 of 6 in cluster T**

Relative:
Lower

Actual:
44 ft.

UST:

Id/Status:	2-611003 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	11/15/2009

179 FLATBUSH AVE (Continued) **U004129101**

UTM X:	586465.21631000005
UTM Y:	4504099.3097400004
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	408758
Affiliation Type:	Facility Owner
Company Name:	ARENA NOMINEE SUB B,LLC
Contact Type:	AGENT
Contact Name:	DAVID BERLINER
Address1:	1 METROTECH CENTER NORTH
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	408758
Affiliation Type:	Mail Contact
Company Name:	ARENA NOMINEE SUB B,LLC
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	1 METROTECH CENTER NORTH
Address2:	C/O FOREST CITY RATNER COMPANIES
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	408758
Affiliation Type:	On-Site Operator
Company Name:	179 FLATBUSH AVE
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	408758
Affiliation Type:	Emergency Contact

179 FLATBUSH AVE (Continued) **U004129101**

Company Name:	ARENA NOMINEE SUB B,LLC
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Tank Info:

Tank Number:	001
Tank ID:	226877
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2100
Install Date:	Not reported
Date Tank Closed:	10/03/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	01/27/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None

Tank Number:	002
Tank ID:	226878
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	2100
Install Date:	Not reported
Date Tank Closed:	10/03/2008
Registered:	True
Tank Location:	Underground

179 FLATBUSH AVE (Continued) **U004129101**

Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None

Tank Number: 003
Tank ID: 226879
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/03/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None

Tank Number: 004
Tank ID: 226880
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/03/2008

179 FLATBUSH AVE (Continued) **U004129101**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None

Tank Number: 005
Tank ID: 226881
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/03/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

Tank Number: 006
Tank ID: 226882
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/03/2008

179 FLATBUSH AVE (Continued) **U004129101**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
B00 - Tank External Protection - None

Tank Number: 007
Tank ID: 226883
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/03/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/27/2009

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
B00 - Tank External Protection - None

T140
South
1/8-1/4
0.158 mi.
836 ft.

592 PACIFIC ST
BROOKLYN, NY 11217

Site 3 of 6 in cluster T

EDR US Hist Auto Stat **1015564078**
N/A

Relative:
Lower

Actual:
43 ft.

EDR Historical Auto Stations:

Name:	METTECH COLLISION
Year:	2001
Address:	592 PACIFIC ST
Name:	METTECH COLLISION
Year:	2002
Address:	592 PACIFIC ST
Name:	METTECH COLLISION
Year:	2003
Address:	592 PACIFIC ST
Name:	METTECH AUTO BODY INC
Year:	2005
Address:	592 PACIFIC ST

T141
SSE
1/8-1/4
0.161 mi.
849 ft.

BARCLAYS CENTER
620 ATLANTIC AVENUE
BROOKLYN, NY 11217

Site 4 of 6 in cluster T

NY AST **A100386212**
N/A

Relative:
Higher

Actual:
46 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-612173
Program Type:	PBS
UTM X:	586531.50968000002
UTM Y:	4504113.78718
Expiration Date:	08/20/2017
Site Type:	Other

Affiliation Records:

Site Id:	491320
Affiliation Type:	Facility Owner
Company Name:	BROOKLYN EVENTS CENTER, LLC
Contact Type:	SR DIR
Contact Name:	MATTHEW FELKER
Address1:	620 ATLANTIC AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(917) 618-6100
EMail:	MFELKER@BARCLAYSCENTER.COM
Fax Number:	Not reported
Modified By:	LXZIELIN
Date Last Modified:	4/18/2014
Site Id:	491320
Affiliation Type:	Mail Contact

BARCLAYS CENTER (Continued) **A100386212**

Company Name:	AEG/BARCLAYS
Contact Type:	Not reported
Contact Name:	MATTHEW FELKER
Address1:	620 ATLANTIC AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(917) 618-6100
EMail:	MFELKER@BARCLAYSCENTER.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/19/2014

Site Id:	491320
Affiliation Type:	On-Site Operator
Company Name:	BARCLAYS CENTER
Contact Type:	Not reported
Contact Name:	AEG
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NY
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 618-6100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LXZIELIN
Date Last Modified:	4/18/2014

Site Id:	491320
Affiliation Type:	Emergency Contact
Company Name:	BROOKLYN EVENTS CENTER, LLC
Contact Type:	Not reported
Contact Name:	MATTHEW FELKER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(860) 324-8030
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LXZIELIN
Date Last Modified:	4/18/2014

Tank Info:

Tank Number:	1C-01
Tank Id:	251025

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None

BARCLAYS CENTER (Continued) **A100386212**

I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L99 - Piping Leak Detection - Other
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
G10 - Tank Secondary Containment - Impervious Underlayment (AG)
H99 - Tank Leak Detection - Other
J01 - Dispenser - Pressurized Dispenser
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	08/20/2012
Capacity Gallons:	3000
Tightness Test Method:	00
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	LXZIELIN
Last Modified:	04/18/2014
Material Name:	Diesel

Tank Number:	5C-01
Tank Id:	251026

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G12 - Tank Secondary Containment - Double-Walled (AG only)
H99 - Tank Leak Detection - Other
J01 - Dispenser - Pressurized Dispenser
E12 - Piping Secondary Containment - Double-Wall
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
L99 - Piping Leak Detection - Other
C01 - Pipe Location - Aboveground
I03 - Overfill - Automatic Shut-Off

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	08/20/2012
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	03/20/2014
Material Name:	Diesel

T142 SSE 1/8-1/4 0.161 mi. 849 ft.

BARCLAYS CENTER AT ATLANTIC YARDS
620 ATLANTIC AVENUE
BROOKLYN, NY 11217

Site 5 of 6 in cluster T

RCRA-LQG
NY MANIFEST
NJ MANIFEST
EPA WATCH LIST

1014399308
NYR000173948

Relative: Higher

Actual: 46 ft.

RCRA-LQG:

Date form received by agency:	02/24/2012
Facility name:	BARCLAYS CENTER AT ATLANTIC YARDS
Facility address:	620 ATLANTIC AVENUE BROOKLYN, NY 11217
EPA ID:	NYR000173948
Mailing address:	METROTECH CENTER BROOKLYN, NY 11217
Contact:	ROBERT SANNA
Contact address:	ONE METROTECH CENTER BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	(718) 923-8400
Contact email:	BSANNA@FCRC.COM
EPA Region:	02
Land type:	State
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NYS URBAN DEVELOPMENT CORP
Owner/operator address:	THIRD AVE DBA EMPIRE STATE DEVELOPMENT NEW YORK, NY 10017
Owner/operator country:	US
Owner/operator telephone:	(212) 803-3750
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/04/2010
Owner/Op end date:	Not reported
Owner/operator name:	NYS URBAN DEVLOPEMENT CORP.D/B/A
Owner/operator address:	THIRD AVENUE NEW YORK, NY 10017
Owner/operator country:	US
Owner/operator telephone:	(212) 803-3750
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	03/04/2009
Owner/Op end date:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Owner/operator name: BROOKLYN EVENTS CENTER, LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/04/2009
Owner/Op end date: Not reported

Owner/operator name: BROOKLYN ARENA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/04/2010
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

. Waste code: D004
. Waste name: ARSENIC

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

. Waste code: D008
. Waste name: LEAD

Historical Generators:
Date form received by agency: 05/24/2011
Site name: BARCLAYS CENTER AT ATLANTIC YARDS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

Date form received by agency: 04/22/2010
Site name: BARCLAYS CENTER AT ATLANTIC YARDS
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 3680400

Waste code: D008
Waste name: LEAD
Amount (Lbs): 3680400

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/31/2013
Date achieved compliance: 10/25/2013
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/25/2013
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/31/2013
Date achieved compliance: 11/13/2013

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/25/2013
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 10/06/2011
Date achieved compliance: 10/06/2011
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/11/2013
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 7500
Paid penalty amount: 7500

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 10/06/2011
Date achieved compliance: 10/06/2011
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 06/11/2012
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 10000
Final penalty amount: Not reported
Paid penalty amount: 7500

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 10/06/2011
Date achieved compliance: 10/06/2011
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 06/11/2012
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 10000
Final penalty amount: Not reported
Paid penalty amount: 7500

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 10/06/2011
Date achieved compliance: 10/06/2011
Violation lead agency: State

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/23/2012
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	10/06/2011
Date achieved compliance:	10/06/2011
Violation lead agency:	State
Enforcement action:	FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date:	12/11/2013
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	7500
Paid penalty amount:	7500

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	10/06/2011
Date achieved compliance:	10/06/2011
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	02/23/2012
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	07/31/2013
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Universal Waste - Small Quantity Handlers
Date achieved compliance:	10/25/2013
Evaluation lead agency:	State

Evaluation date:	07/31/2013
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Universal Waste - Small Quantity Handlers
Date achieved compliance:	11/13/2013
Evaluation lead agency:	State

Evaluation date:	11/15/2012
Evaluation:	COMPLIANCE ASSISTANCE VISIT
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

Evaluation date:	10/07/2011

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Evaluation:	NOT A SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	10/06/2011
Evaluation:	CASE DEVELOPMENT INSPECTION
Area of violation:	Generators - Manifest
Date achieved compliance:	10/06/2011
Evaluation lead agency:	State

Evaluation date:	10/06/2011
Evaluation:	SIGNIFICANT NON-COMPLIER
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State

Evaluation date:	10/06/2011
Evaluation:	CASE DEVELOPMENT INSPECTION
Area of violation:	Generators - General
Date achieved compliance:	10/06/2011
Evaluation lead agency:	State

NY MANIFEST:

EPA ID:	NYR000173948
Country:	USA
Location Address 1:	620 ATLANTIC AVENUE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	BARCLAYS CENTER AT ATLANTIC YARDS
Contact:	LINDA CHIARELLI
Address:	1 METRO TECH CENTER
City/State/Zip:	BROOKLYN, NY 11201
Country:	USA
Phone:	718-923-8409

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	02/01/2011
Trans1 Recv Date:	02/01/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/01/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Quantity:	61680.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939603JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/27/2011
Trans1 Recv Date:	04/27/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/27/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	61660.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400934JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	02/01/2011
Trans1 Recv Date:	02/01/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/01/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	58740.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939605JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/31/2011
Trans1 Recv Date:	01/31/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/31/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	75780.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Year:	2011
Manifest Tracking Num:	007939606JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/31/2011
Trans1 Recv Date:	01/31/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/31/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	64100.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939607JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	65360.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939608JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	61900.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939609JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	69140.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939610JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	62660.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939611JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	63620.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939612JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Mgmt Method Type Code: H111

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJ0000363820
Trans2 State ID: Not reported
Generator Ship Date: 01/28/2011
Trans1 Recv Date: 01/28/2011
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/28/2011
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000173948
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 64560.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DT - Dump trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2011
Manifest Tracking Num: 007939613JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H111

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJ0000363820
Trans2 State ID: Not reported
Generator Ship Date: 01/28/2011
Trans1 Recv Date: 01/28/2011
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/28/2011
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000173948
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 61400.0
Units: P - Pounds
Number of Containers: 1.0

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939614JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	59440.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939615JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	49480.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939616JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2011
Trans1 Recv Date:	01/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	59020.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939617JJK
Import Ind:	N

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/2011
Trans1 Recv Date:	01/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	65320.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939618JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/2011
Trans1 Recv Date:	01/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	65960.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939619JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/2011
Trans1 Recv Date:	01/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	65320.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939620JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/2011
Trans1 Recv Date:	01/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	60400.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939621JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/2011
Trans1 Recv Date:	01/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000173948
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Quantity:	57880.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	007939622JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

NJ MANIFEST:

EPA Id:	NYR000173948
Mail Address:	METROTECH CENTER
Mail City/State/Zip:	BROOKLYN, NY 11201
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	ROBERT SANNA
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	007939614JJK
EPA ID:	NYR000173948
Date Shipped:	1/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	1/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	1/28/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	61,400.00 Pounds

Manifest Number:	007939619JJK
EPA ID:	NYR000173948
Date Shipped:	1/26/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	1/26/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	1/26/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	65,960.00 Pounds

Manifest Number:	006011924JJK
EPA ID:	NYR000173948
Date Shipped:	05/19/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/19/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/19/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	54480 P

Manifest Number:	006011868JJK
EPA ID:	NYR000173948
Date Shipped:	05/28/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/28/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/28/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	51340 P

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Manifest Number:	008400923JJK
EPA ID:	NYR000173948
Date Shipped:	6/3/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	J&D TRUCKING INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	6/3/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	6/3/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D004
Hand Code:	H141
Quantity:	29,760.00 Pounds

Manifest Number:	008400931JJK
EPA ID:	NYR000173948
Date Shipped:	4/27/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/27/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/27/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D004
Hand Code:	H141
Quantity:	63,560.00 Pounds

Manifest Number:	008400933JJK
EPA ID:	NYR000173948
Date Shipped:	4/27/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/27/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/27/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D004
Hand Code:	H141
Quantity:	68,880.00 Pounds

Manifest Number:	006011915JJK
EPA ID:	NYR000173948
Date Shipped:	05/18/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/18/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/18/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	46860 P

Manifest Number:	006011916JJK
EPA ID:	NYR000173948
Date Shipped:	05/18/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/18/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/18/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2010 New Jersey Manifest Data
Waste Code: D008
Hand Code: H039
Quantity: 46480 P

Manifest Number: 006011918JJK
EPA ID: NYR000173948
Date Shipped: 05/18/2010
TSDF EPA ID: NJD045995693
Transporter EPA ID: NJR000053785
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 05/18/2010
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 05/18/2010
TSDF EPA Facility Name: Not reported
QTY Units: Not reported
Transporter SEQ ID: Not reported
Transporter-1 Date: Not reported
Waste SEQ ID: Not reported
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: Not reported
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: BROOKLYN, NY 11201
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2010 New Jersey Manifest Data
Waste Code: D008
Hand Code: H039
Quantity: 47200 P

Manifest Number: 006011934JJK
EPA ID: NYR000173948

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Date Shipped:	05/20/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/20/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/21/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	58400 P

Manifest Number:	006011847JJK
EPA ID:	NYR000173948
Date Shipped:	04/30/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Date Trans1 Transported Waste:	04/30/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	04/30/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	55880 P

Manifest Number:	006011895JJK
EPA ID:	NYR000173948
Date Shipped:	05/05/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/05/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/05/2010

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	57260 P

Manifest Number:	006011900JJK
EPA ID:	NYR000173948
Date Shipped:	05/14/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/14/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/14/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	46920 P

Manifest Number:	006011908JJK
EPA ID:	NYR000173948
Date Shipped:	05/17/2010
TSDF EPA ID:	NJD045995693
Transporter EPA ID:	NJR000053785
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/17/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/17/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H039
Quantity:	53720 P

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Manifest Number:	007469987JJK
EPA ID:	NYR000173948
Date Shipped:	08/10/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJR000029967
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	08/10/2010
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	08/10/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D006
Hand Code:	H111
Quantity:	59920 P

Manifest Number:	007939604JJK
EPA ID:	NYR000173948
Date Shipped:	2/1/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	2/1/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	2/1/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	68,580.00 Pounds

Manifest Number:	007939610JJK
EPA ID:	NYR000173948
Date Shipped:	1/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	1/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	1/28/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	69,140.00 Pounds

Manifest Number:	007939615JJK
EPA ID:	NYR000173948
Date Shipped:	1/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Transporter-1 Date:	1/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	1/28/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	BROOKLYN, NY 11201
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	59,440.00 Pounds

Manifest Number:	007939618JJK
EPA ID:	NYR000173948
Date Shipped:	1/26/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	BROOKLYN ARENA LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	1/26/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	1/26/2011
Manifest Discrepancy Type:	Quantity

BARCLAYS CENTER AT ATLANTIC YARDS (Continued) **1014399308**

Data Entry Number: Not reported
Was Load Rejected: BROOKLYN, NY 11201
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2011 New Jersey Manifest Data
Waste Code: D008
Hand Code: H111
Quantity: 65,320.00 Pounds

EPA WATCH LIST:
Facility ID: NYR000173948
Program: RCRA Facilities
List date: August 2013 Watch List

Facility ID: NYR000173948
Program: RCRA Facilities
List date: July 2013 Watch List

Q143
West
1/8-1/4
0.161 mi.
849 ft.

NYC DEP **RCRA NonGen / NLR** **1014395494**
503 ATLANTIC AVE **NY MANIFEST** **NYP003663929**
BROOKLYN, NY 11217

Site 3 of 7 in cluster Q

Relative:
Lower

Actual:
36 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/30/2008
Facility name: NYC DEP
Facility address: 503 ATLANTIC AVE
BROOKLYN, NY 11217
EPA ID: NYP003663929
Mailing address: JUNCTION BLVD
FLUSHING, NY 11376
Contact: JOANNE NURSE
Contact address: JUNCTION BLVD
FLUSHING, NY 11376
Contact country: US
Contact telephone: (718) 595-4675
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No

NYC DEP (Continued) **1014395494**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP003663929
Country: USA
Location Address 1: 503 ATLANTIC AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11201
Location Zip Code 4: Not reported

Mailing Info:
Name: NYCDEP
Contact: NYCDEP
Address: 96-06 HORACE HARDING EXPRESSWAY
City/State/Zip: CORONA, NY 11368
Country: USA
Phone: 718-595-4784

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD049178296
Trans2 State ID: Not reported
Generator Ship Date: 04/15/2008
Trans1 Recv Date: 04/15/2008
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/09/2008
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP003663929
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported

NYC DEP (Continued) **1014395494**

TSDF ID:	CDX480000000
Waste Code:	Not reported
Quantity:	40.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	004182976JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

R144 **EDR US Hist Cleaners** **1015087928**
East **696 FULTON ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.162 mi.
857 ft. **Site 2 of 4 in cluster R**

Relative:
Higher

Actual:
68 ft.

EDR Historical Cleaners:

Name:	DIFFERENT CLEANERS
Year:	2005
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS
Year:	2006
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS NO 2
Year:	2007
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS
Year:	2008
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS
Year:	2010
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS 2
Year:	2011
Address:	696 FULTON ST
Name:	DIFFERENT CLEANERS 2
Year:	2012
Address:	696 FULTON ST

R145	**DIFFERENCE CLEANERS II**	**RCRA-SQG**	**1000555999**
East	**696 FULTON ST**	**RI MANIFEST**	**NYD986985489**
1/8-1/4	**BROOKLYN, NY 11217**	**NY MANIFEST**	
0.162 mi.		**NY DRYCLEANERS**	
857 ft.	**Site 3 of 4 in cluster R**	**US AIRS**	

Relative:
Higher

Actual:
68 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	DIFFERENCE CLEANERS II
Facility address:	696 FULTON ST BROOKLYN, NY 11217
EPA ID:	NYD986985489
Mailing address:	FULTON ST BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	FULTON ST BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	KYUNG KANG
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KYUNG KANG
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

DIFFERENCE CLEANERS II (Continued) **1000555999**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: DIFFERENCE CLEANERS II
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999
Site name: DIFFERENCE CLEANERS II
Classification: Not a generator, verified

Date form received by agency: 11/18/1991
Site name: DIFFERENCE CLEANERS II
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

RI MANIFEST:
EPA Id: NYD986985489
Manifest Document Number: 003785379FLE
GEN Cert Date: 2/14/2011
TSDF Id: RID084802842
TSDF Name: SAFETY KLEEN
TSDF Date: 2/17/2011
Transporter 2 Id: NJD071629976
Transporter 2 Name: 2/17/2011
Transporter Receipt Date: 2/14/2011
Number Of Containers: 1
Container Type: DF
Waste Code1: D029
Waste Code2: D039
Waste Code3: D040
Fee Exempt Code: Not reported
Comment: Not reported

Details:
EPA ID: NYD986985489
Manifest Docket Number: 003785379FLE

DIFFERENCE CLEANERS II (Continued) **1000555999**

Waste Description:	HAZARDOUS WASTE LIQUID NOS
Quantity:	100
WT/Vol Units:	P
Item Number:	1
Transporter Name:	SAFETY KLEEN
Transporter EPA ID:	TXR000050930
GEN Cert Date:	2/14/2011
Transporter Receipt Date:	2/14/2011
Transporter 2 Receipt Date:	2/17/2011
TSDF Receipt Date:	2/17/2011
Transporter 2 ID:	NJD071629976

NY MANIFEST:

EPA ID:	NYD986985489
Country:	USA
Location Address 1:	696 FULTON ST
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	DIFFERENT CLNRS II
Contact:	JUNG KANG
Address:	696 FULTON STREET
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	718-596-0818

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	NYD982792814
Generator Ship Date:	06/11/2014
Trans1 Recv Date:	06/11/2014
Trans2 Recv Date:	06/25/2014
TSD Site Recv Date:	07/02/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	110
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004265666SKS
Import Ind:	N

DIFFERENCE CLEANERS II (Continued) **1000555999**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	PAR000524041
Generator Ship Date:	03/06/2014
Trans1 Recv Date:	03/06/2014
Trans2 Recv Date:	03/18/2014
TSD Site Recv Date:	03/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004139626SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	NYD982792814
Generator Ship Date:	06/11/2014
Trans1 Recv Date:	06/11/2014
Trans2 Recv Date:	06/25/2014
TSD Site Recv Date:	07/02/2014
Part A Recv Date:	Not reported

DIFFERENCE CLEANERS II (Continued) **1000555999**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	100
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004265666SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	10/01/2009
Trans1 Recv Date:	10/01/2009
Trans2 Recv Date:	10/06/2009
TSD Site Recv Date:	10/14/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002036170SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

DIFFERENCE CLEANERS II (Continued) **1000555999**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	10/01/2009
Trans1 Recv Date:	10/01/2009
Trans2 Recv Date:	10/06/2009
TSD Site Recv Date:	10/14/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	100.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002036170SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	10/01/2009
Trans1 Recv Date:	10/01/2009
Trans2 Recv Date:	10/06/2009
TSD Site Recv Date:	10/14/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported

DIFFERENCE CLEANERS II (Continued) **1000555999**

Quantity:	133.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002036170SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/18/2009
Trans1 Recv Date:	02/18/2009
Trans2 Recv Date:	02/24/2009
TSD Site Recv Date:	02/25/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	390.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000117943SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

DIFFERENCE CLEANERS II (Continued) **1000555999**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/18/2009
Trans1 Recv Date:	02/18/2009
Trans2 Recv Date:	02/24/2009
TSD Site Recv Date:	02/25/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	133.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000117943SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	12/14/2011
Trans1 Recv Date:	12/14/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/21/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0

DIFFERENCE CLEANERS II (Continued) **1000555999**

Year:	2011
Manifest Tracking Num:	002592496SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	12/14/2011
Trans1 Recv Date:	12/14/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/21/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002592496SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	06/08/2011
Trans1 Recv Date:	06/08/2011

DIFFERENCE CLEANERS II (Continued) **1000555999**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/15/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002595564SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/14/2011
Trans1 Recv Date:	02/14/2011
Trans2 Recv Date:	02/17/2011
TSD Site Recv Date:	02/18/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	180.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003785379FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

DIFFERENCE CLEANERS II (Continued) **1000555999**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	06/08/2011
Trans1 Recv Date:	06/08/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/15/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	100.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002595564SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	03/27/2008
Trans1 Recv Date:	03/27/2008
Trans2 Recv Date:	04/08/2008
TSD Site Recv Date:	04/09/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported

DIFFERENCE CLEANERS II (Continued) **1000555999**

Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	195.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	000124894SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD000692061
Generator Ship Date:	07/18/2008
Trans1 Recv Date:	07/18/2008
Trans2 Recv Date:	07/30/2008
TSD Site Recv Date:	08/01/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	133.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001119889SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

DIFFERENCE CLEANERS II (Continued) **1000555999**

Mgmt Method Type Code: H020

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: NJD071629976
Generator Ship Date: 03/27/2008
Trans1 Recv Date: 03/27/2008
Trans2 Recv Date: 04/08/2008
TSD Site Recv Date: 04/09/2008
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986985489
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 160.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2008
Manifest Tracking Num: 000124894SKS
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H020

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: NJD000692061
Generator Ship Date: 07/18/2008
Trans1 Recv Date: 07/18/2008
Trans2 Recv Date: 07/30/2008
TSD Site Recv Date: 08/01/2008
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986985489
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 195.0
Units: P - Pounds
Number of Containers: 1.0

DIFFERENCE CLEANERS II (Continued) **1000555999**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001119889SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	07/12/2012
Trans1 Recv Date:	07/12/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	003207463SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930

DIFFERENCE CLEANERS II (Continued) **1000555999**

Trans2 State ID:	NJD071629976
Generator Ship Date:	04/04/2012
Trans1 Recv Date:	04/04/2012
Trans2 Recv Date:	04/06/2012
TSD Site Recv Date:	04/09/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	002595437SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	07/12/2012
Trans1 Recv Date:	07/12/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986985489
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	110.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	003207463SKS
Import Ind:	N

DIFFERENCE CLEANERS II (Continued) **1000555999**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

DRYCLEANERS:

Facility ID:	2-6103-00264
Phone Number:	718-596-0818
Region:	Not reported
Registration Effective Date:	N/A
Inspection Date:	07JUL12
Install Date:	96JAN09
Drop Shop:	Not reported
Shutdown:	Not reported
Alternate Solvent:	Not reported
Current Business:	Not reported

AIRS (AFS):

Compliance and Violation Data Major Sources:

EPA plant ID:	110009481328
Plant name:	DIFFERENT CLEANERS 2
Plant address:	696 FULTON ST BROOKLYN, NY 112171649
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

U146 **MACYS** **RCRA NonGen / NLR** **1006810232**
SSE **625 ATLANTIC AVE** **FINDS** **NYR000109082**
1/8-1/4 **BROOKLYN, NY 11217**
0.164 mi.
865 ft. **Site 1 of 2 in cluster U**

Relative:
Higher

Actual:
47 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	MACYS
Facility address:	625 ATLANTIC AVE BROOKLYN, NY 11217
EPA ID:	NYR000109082
Mailing address:	ATLANTIC AVE BROOKLYN, NY 11217
Contact:	TOMIKA WHITE
Contact address:	ATLANTIC AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	(718) 399-9545
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MACYS
Owner/operator address:	625 ATLANTIC AVE BROOKLYN, NY 11217
Owner/operator country:	US
Owner/operator telephone:	(718) 399-9545
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Owner/operator name:	MACYS
Owner/operator address:	625 ATLANTIC AVE BROOKLYN, NY 11217
Owner/operator country:	US
Owner/operator telephone:	(718) 399-9545
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2001
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

MACYS (Continued) **1006810232**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: MACYS
Classification: Not a generator, verified

Date form received by agency: 09/11/2002
Site name: MACYS
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110013291044

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

V147 **LIVINGSTON STREET REALTY ASSOC** **NY AST** **A100300680**
NW **366 LIVINGSTON STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.165 mi.
871 ft. **Site 1 of 11 in cluster V**

Relative:
Lower

Actual:
39 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-202401
Program Type: PBS
UTM X: 586194.74352999998
UTM Y: 4504539.0644399999
Expiration Date: 07/20/2002
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 6929
Affiliation Type: Facility Owner
Company Name: LIVINGSTON STREET REALTY ASSOC
Contact Type: Not reported
Contact Name: Not reported
Address1: 360-364 LIVINGSTON STREET
Address2: Not reported
City: BROOKLYN
State: NY

LIVINGSTON STREET REALTY ASSOC (Continued) **A100300680**

Zip Code:	11217
Country Code:	001
Phone:	(212) 239-8580
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	6929
Affiliation Type:	Mail Contact
Company Name:	LIVINGSTON STREET REALTY ASSOC
Contact Type:	Not reported
Contact Name:	HENRY POKER
Address1:	ISJ MANAGEMENT CORPORATION
Address2:	110 WEST 34TH STREET
City:	NEW YORK
State:	NY
Zip Code:	10001
Country Code:	001
Phone:	(212) 239-8580
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	6929
Affiliation Type:	On-Site Operator
Company Name:	LIVINGSTON STREET REALTY ASSOC
Contact Type:	Not reported
Contact Name:	WILLIAM HAMLETTE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 239-8580
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	6929
Affiliation Type:	Emergency Contact
Company Name:	LIVINGSTON STREET REALTY ASSOC
Contact Type:	Not reported
Contact Name:	JOSEPH JEMAL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 239-8580
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT

LIVINGSTON STREET REALTY ASSOC (Continued) **A100300680**

Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 001
Tank Id: 16959
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Location: 1
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - In Place
Pipe Model: Not reported
Install Date: 11/01/1997
Capacity Gallons: 2000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 11/01/1997
Register: True
Modified By: TRANSLAT
Last Modified: 03/04/2004
Material Name: #2 Fuel Oil (On-Site Consumption)

U148 **622 ATLANTIC AVE** **NY UST** **U000416589**
SSE **622 ATLANTIC AVE** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.167 mi.
882 ft. **Site 2 of 2 in cluster U**

Relative:
Higher

Actual:
46 ft.

UST:
Id/Status: 2-083992 / Unregulated/Closed
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 09/19/2011
UTM X: 586564.74265000003
UTM Y: 4504094.0954600004
Site Type: Other

Affiliation Records:
Site Id: 1919
Affiliation Type: Mail Contact
Company Name: AY 622 ATLANTIC , LLC
Contact Type: Not reported
Contact Name: DAVID BERLINER
Address1: C/O FOREST CITY RATNER COMPANIES

622 ATLANTIC AVE (Continued) **U000416589**

Address2:	1 METROTECH CTR NORTH
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	1919
Affiliation Type:	On-Site Operator
Company Name:	622 ATLANTIC AVE
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 638-5061
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	1919
Affiliation Type:	Emergency Contact
Company Name:	AY 622 ATLANTIC , LLC
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 562-8700
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Site Id:	1919
Affiliation Type:	Facility Owner
Company Name:	AY 622 ATLANTIC , LLC
Contact Type:	SENIOR VP
Contact Name:	DAVID BERLINER
Address1:	1 METROTECH CTR NORTH
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400

622 ATLANTIC AVE (Continued) **U000416589**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/9/2009

Tank Info:

Tank Number:	001
Tank ID:	3167
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	02/01/1979
Date Tank Closed:	10/10/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	01/12/2009

Equipment Records:

F00 - Pipe External Protection - None
C00 - Pipe Location - No Piping
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
A00 - Tank Internal Protection - None
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None
I00 - Overfill - None

Tank Number:	002
Tank ID:	226867
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	09/16/2006
Date Tank Closed:	10/10/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	01/12/2009

622 ATLANTIC AVE (Continued) **U000416589**

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None

Tank Number:	003
Tank ID:	226868
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	10/10/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	01/12/2009

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None

Tank Number:	004
Tank ID:	226869
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	10/10/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported

622 ATLANTIC AVE (Continued) **U000416589**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None

Tank Number: 005
Tank ID: 226870
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/10/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
L00 - Piping Leak Detection - None

Tank Number: 006
Tank ID: 226871
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/10/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009

622 ATLANTIC AVE (Continued) **U000416589**

Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
L00 - Piping Leak Detection - None

Tank Number: 007
Tank ID: 226872
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/10/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
L00 - Piping Leak Detection - None

Tank Number: 008
Tank ID: 226873
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/10/2008

622 ATLANTIC AVE (Continued) **U000416589**

Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
L00 - Piping Leak Detection - None

Tank Number: 009
Tank ID: 226874
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 550
Install Date: Not reported
Date Tank Closed: 10/10/2008
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: MSBAPTIS
Last Modified: 01/09/2009

Equipment Records:

G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
L00 - Piping Leak Detection - None
F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None

Tank Number: 010
Tank ID: 226875
Tank Status: Closed - Removed

622 ATLANTIC AVE (Continued) **U000416589**

Material Name:	Closed - Removed
Capacity Gallons:	550
Install Date:	Not reported
Date Tank Closed:	10/10/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	01/09/2009

Equipment Records:

F00 - Pipe External Protection - None
C02 - Pipe Location - Underground/On-ground
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
L00 - Piping Leak Detection - None

SPILLS:

Facility ID:	9412191
Facility Type:	ER
DER Facility ID:	85979
Site ID:	96173
DEC Region:	2
Spill Date:	11/12/1994
Spill Number/Closed Date:	9412191 / 2/18/2014
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	aaobliga
Referred To:	ATLANTIC YARDS, EXCAVATION, INJECTION
Reported to Dept:	12/12/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/27/1995
Spill Record Last Update:	2/18/2014
Spiller Name:	Not reported
Spiller Company:	U-HAUL
Spiller Address:	Not reported

622 ATLANTIC AVE (Continued) **U000416589**

Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "VOUGHT"4/12/04-Vought-Spill transferred from Mulqueen to Vought as per Rommel.9/27/05 - Obligado - Spill transferred from Vought to Obligado11/18/05 - Obligado - File Review:9/9/93 - NOV letter dated reporting failed inspection for no registetration, no tank testing.5/18/94 - Affadavit, B & M Service station maintenance reports no Stage 1 or Stage 2 vapor recovery systems in place.5/27/94 - UST closure plan submitted by DAmes and MOore and approved by the department on 6/10/94.12/94 - UHaul Corporation UST abandonment report. Ammended closure plan to abandon the USTs in place. Ammendment approved by DEC Krimgold. The site contained 1 4000 gallon gasoline undergaround storage tank. Piping was less then 15 feet and did not require samples collection. 1 dispenser pump was located on site. 4000 gallon gasoline UST was encased in concrete and could not be removed so it was closed in place under supervision of a NYC fire Department cerified tank installer. The condition of the tank was good, with no corrosion holes. A site assessment was completed at the tank location. Three soil borings performed, B1, B2, and B3 and a total of 5 soil samples colleced. NO impacts at B1 and B2 to 27 ft bgs. SOIL IMPACTS AT B3(20-23 ft) showing 25000 ppb ethylbenzene, 203000 ppb xylene, 15000 isopropylbenzene, 26000 n-propylbenznee, 130000 1,2,4 trimethlybenzene, 70000 1,3,5 trimethlybenzene, 59000 n-butlbenznee, 18000 napthalene. At B3 (26-27) show 5500 ppb ethylbenzene, 33000 xylene, 37000 trimethlybenzene, 18000 2,k3,5 trimethlybenzene, 21000 nbutlybenzene, 20000 sec-butylbenzene. Boring B3 advanced to 28 ft, showing up to 500 ppm with PID. Soil is brown medium sand and silt, GROUND WATER NOT ENCOUNTERED. Based on soil results spill number 9412191 was assigned. "Based on site assessment boring results, remedial measures will be required. A supplemental site assessment plan should be submitted to the NYSDEC and remedial activities implemented after NYSDEC approval"12/12/05 - Obligado - Call Michael Morris at ATC, inquire as to site status. He said he will contact his client.From GIS parcel information:Site resident & owner:M & V RENTALS INC622 ATLANTIC AVENUEBROOKLYN NY, 11217Mortgage:U-HAUL CO OF NEW YORKPO BOX 29046 Apt# PHOENIX AZ, 85038-90465/11/06 - Obligado - Sent letter to Amerco Real Estate requiring additional site asssessment and submission of investigation workplan within 30 days of receipt of letter. 5/16/06 - Obligado - Phone call from Joey Peck (602-263-6555 ext.3957) of Amerco Real Estate. He said they had a 10 gallon spill in 1994 and asked what they needed to do to close the spill. I told them they needed to install monitoring wells to ensure ground water is clean inorder to close the spill. 5/22/06 - Obligado - Delivery confirmation - 5/15. Workplan due 6/15.6/9/06 - Obligado - Extension request for workplan from Michael Morris. Granted extension workplan due 7/11.6/29/06 - Obligado - received Workplan submitted by ATC via email. Proposed 3 soil borings and installation of 3 2" wells with Geoprobe. Called John Mascioli to discuss workplan. Sent ATC/RP email reply approving workplan however with recommendation to use more powerful drill rig due to boulders and depth to groundwater as reported in 1994 American High Tech Report. Due date for Remedial Investigation Report is 9/1/06.8/30/06 - Obligado - Call from Pam at ATC. Required as to GW standards to be compared to. Told her it was TOGS.9/11/06 - Obligado

622 ATLANTIC AVE (Continued) **U000416589**

- Received Phase II Limited Subsurface Site Investigation,submitted by ATC Associates, dated August 31, 2006. Groundwater encountered at approximately 37 ft. Silt and fill underlatin by coarse grain sand with gravel. Six soil samples colelcted. 3 monitoring wells installed. 3 GW samples collected. VOC soil impacts at MW1B at approximate water interface with 11,700 ppb 1,2,4-trimethylbenzene. Minor SVOC PAH impacts at 15 ft bgs. GW analyticals show impacts for VOCs at MW1 and MW2, also some minor SVOCs at MW1 and MW2.GW results in ppb:MW-1 (downgradient of former tank) - 16700 BTEX and 32000 total VOCS(2570 ethylbenzene, 13700 xylene, 1890 napthalene, 1290 n-proplybenzene, 9870 1,2,4 trimethlybenzene, 2710 1,3,5 trimethlybenzene)MW-2 - minor exceedences with 76.65 BTEX and 261 total VOCsMW-3 - NDSent Stipulation agreement requiring additional delienation and submission of RAP. Due date for signed STIP is 9/2/06.9/15/06 - Obligado - Spoke to Cecil Fleckton of Environmental Resource Management (ERM). She is the new consultant handling this site (315-445-2554 ext 27 and 315-506-9537). 9/29/06 - Obligado - Email from Rob Fraley. He had questions about the STIP and requested an extension. Called him and left a message to call the DEC.10/10/06- Obligado - Called Rob Fraley (602) 263-6555 ext 4735. Left message to call DEC. 10/17/06 - Obligado - Emailed Fraley to inquire about Stipulation Agreement. 11/14/06 - Obligado - Called Rob Fraley to inquire about Stipulation Agreement. Left message with Joey Peck to have Rob Fraley call DEC.11/17/06 - Obligado - Called Rob Fraley again. Left message to call back DEC.11/20/06 - Obligado - Spoke to Rob Fraley. He said they sold the property to:AY 622 Atlantic, LLCc/o Forest City Ratner CompaniesOne MetroTech Center North 11th FloorBrooklyn, NY 11201Attn: General CounselHe Emailed me a copy of the sales agreement (not signed by purchaser) which said that the property has been sold at a reduce rate ($218,000 less) due to a failure to complete the "Underground Tank Work". I will send a new Stipualtion to AY 622 Atlantic, LLC.11/20/06 - Obligado - Spoke to Rob Fraley. He said they sold the property to:AY 622 Atlantic, LLCc/o Forest City Ratner CompaniesOne MetroTech Center North 11th FloorBrooklyn, NY 11201Attn: General CounselHe emailed me a copy of the sales agreement (not signed by purchaser) which said that the property has been sold at a reduce rate ($218,000 less) due to a failure to complete the "Underground Tank Work". 12/5/06 - Obligado - Sent a new Stipualtion to AY 622 Atlantic, LLC. Signature by 12/26/06, with ISR in 60 days, RAP in 60 days.12/6/06 - Obligado - Received additional contact information from Robert Fraley. Their point of contact was:Andy Zlotnick, Sr. VP, Real Estate Development Department718.923.8467azlotnick@fcrc.com Called Mr. Zlotnick, left message to call DEC12/7/06 - Obligado - Emailed Mr. Zlotnick, attached copy of STipulation Agreement.12/8/06 - Obligado - Received emial reply from Mr. Zlotnick, he will forward to the environmental team.12/12/06 - Obligado - Received delivery confirmation - 12/7/06.1/3/07 - Obligado - Called Mr. Zlotnick to follow up. Left message to call back DEC.1/12/07 - Obligado - DEC meeting - Forest City Ratner, Rioux Environmental, DEC. They did a phase 2 investigation with several borings and one additional gw well. They plan to excavate the entire site down to 45 ft and treat water (gw at ~42 ft). They plan to excavated around July. In the meantime I will work with Rioux to develop a workplan for some additional ground water delineation. After discussion with Sin Senh next week (Roux - 631-232-2600) I will put together a CAP for a STIP for additional delineation and a RAP submittal.1/17/07 - Obligado - Voice mail from

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Daren Moss from Roux. Called back and left message. 1/23/07 - Obligado - Spoke with Sin Senh from Roux. Told him I wanted one additional well to delineate west of MW13, due to elevated concentrations. Told him I would put together a new CAP.2/26/07 - Obligado - Stipulation agreement with new CAP sent to FCR by John Urda. Due date for signature is 3/16/07.4/13/07 - Obligado - Phone message from DEC Urda who spoke with FCR attorney. Signed stips should be received by MOnday.4/24/07 - Obligado - Spoke to Urda, STIPs not received. Called Sin Senh and Darren Moss to inquire about site, neither of them were in the office, left message to call DEC.4/30/07 - Obligado - STIPULATION executed by Oliva.5/3/07 - Obligado - Received executed Stip from Legal5/4/07 - Obligado - Email stip to Roux. Due date for ISR is 6/15/07. 5/31/07 - Obligado - Received extension request for ISR to 7/6/077/6/07 - Obligado - Received Investigation Summary Report. The report summarizes additioanl investigation with regard to both this spill and spill 0611832, which is located across the street. The investigation revealed 2 separte ground water plumes, both of limited areal extent. No free product was encountered. The ground water plume has been addiquately delineated. Contamination does not appear to have migrated off-site from the formal UHaul site. Sent email requiring Remedial Action Plan within 60 days. 10/23/07 - Obligado - Reviewed a RAP, submitted by Roux, dated September 17, 2007. The RAP is similart to the RAP proposed for 179 Flatbush. Proposes Excavation down to 25 to 32 ft bgs followed by chemical oxidation using the product RegenOx. According to REgenOx literature, the mixing of regenox in subsurface generates minimal heat. Proposes 7 injection points and at least 2 applications, spaced 1 month apart. Baseline sampling will be performed prior to injection and performance monitoring 1 month after. Approved of the workplan with following modifications: 1) Soil endpoint samples will be collected in accordance with DER-10 in the area of concern subsequent to the soil excavation. 2) Foundation construction will not proceed in the area of concern until the Department has had a chance to review and approve the remedial evaluation report. 3) Due to adsorption and desorption equilibium in soil and ground water systems, contaminant concentrations in ground water often rebound subsequent to chemical oxidation treatment. Since long term ground water monitoring may not be feasible due to the proposed site construction, the Department may require confirmatory soil sampling to confirm contaminant mass reduction in the subsurface soils. 4) The soil management work plan and a RAP implementation schedule must be submitted to the Department within 30 days of receipt of this letter. RAP implementation due within 45 days.11/29/07 - Obligado - Meeting with Roux and FCR. The project is delayed due to litigation holding up the project. They also had issues with some of the above modifications. They will submit a letter with concerns within 14 days. They want to modify the CAP as the 45 day implementation requirement is not possible due to litigation. They also were concerned about item 2. We agreed that the foundation could be poured as long as remediation can proceed via installation of injection and monitoring wells through the foundation slab to treat ground water.1/15/08 - Obligado - Review Quarterly monitoring report. Combined, 11 ground wtaer monitoring wells were sampled from 622 Atlantic and 179 Flatbush on September 20, 2007. No LnAPL was detected. VOCs and SVOCs in excess of standards in 4 wells. BTEX ranged from ND to 7400 ug/L in MWATC1. GW Flow is to the northwest. Concludes no free product on site, VOC levels han not

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significantly changed. Roux plan s to implement the RAP for the site.Review letter dated December 14, 2007 in response to the RAP approval. DEC RAP modificaiton is #2 above is modified so that the foundation can be poured after excavation but ground water remediation and monitoring will proceed through foundation if necessary. A Soil Management Plan was also submitted. I reviewed the plan and the only thing missing was a odor control and monitoring plan. I emailed Daren and requested he modify the plan as such.3/17/08 - Obligado - Received Community Air MOnitoring Plan for this site. The CAMP is for the entire AY site and addresses odor and dust.5/6/08 - Obligado - Review quarterly monitoring report for sp#9412191 and 0611832. VOCs in excess of standards in MW13, MW27, MWATC1, and MWATC3. SVOCs in excess of MW13, MW27, and MWATC3, and MWATC1. Max VOCs in MWATC1 (20,240 ug/L). Max SVOCs in ATC1 660 ug/L. 7/28/08 - Obligado - Review quarterly monitoring report for sp#9412191. Max total VOCs at the former UHAUL site are 16820 ug/L (MWATC1). Max SVOCs show 680 ug/L napthalene in MWATC1.Roux plans to implememnt the RAP.9/8/08 - Obligado - Meeting with Forest City Ratner and Roux. They want to proceed with chem ox injection and UST removal prior to mass soil excavation. They will submit letter as such.9/16/08 - Obligado - Received letter requesting start UST removal and chemox injection. ASked Daren to resubmit the letter to include compliance with EPA UIC program and implementation schedule.9/25/08 - Obligado - Received revised letter. They will comply with EPA UIC program. The implemenation schedule was not detailed. Only that it would start within 2 weeks of UST removal. I called Daren to inquire about the timing of baseline sampling, well installation, injection, performance sampling, re-injection, and reporting. He said he wasn't sure about the scheduling and he would need to get back to me. But he requested permission to proceed with UST pull. I sent email to Daren approving UST pull but requirng more detailed implemenation scheduling for injecitons.10/13/08 - Obligado - Received implemenation schedule for Regenox injections:* October 10, 2008 form received by EPA for UICP* November 10, 2008 Start of injection work (30 day notificationafter sending form to EPA) * We estimate 7 days to complete installation of injectionpoints and inject at 622 Atlantic Avenue (Spill #94-12191)* We estimate 5 days to complete installation of injectionpoints and inject at 179 Flatbush Avenue (Spill #06-11832)* The post injection monitoring will be performed approximatelyone month after the injectionsOnce we receive the post injection monitoring results, we will provideanother update as to the schedule for completion of the injections.~11/10/08 - Obligado - Spoke to Daren Moss and Sin Senh about this project. They said that they have not received authorization to proceed with chemical oxidation. They wanted to request an extension until 2nd quarter 2009 to begin injections. They said there was another legal challenge and the development wouldn't start until 2009. I told him the chemical injections were not dependent on development and they should proceed as scheduled. I told him I would not approve the extension and they should start work as soon as possible. ~11/11/08 - Obligado - Spoke to Kate Bicknell. She basically reiterated the above. They did not want to start remediation because the development project was put on hold. I told her that if they didn't begin remediation FCR was in violation of Agreement. I informed her of penalties for violations. 11/24/08 - Obligado - spoke to Daren Moss. They have not gotten authorization to proceed with chemical injection. He will contact Kate.12/4/08 - Obligado - Emailed Kate

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Bicknell and required start of remediation as per RAWP or case would be referred to Legal for enforcement.12/5/08 - Obligado - Email from Kate that they will begin injections in Janaury.1/15/09 - Obligado - Emailed Daren to inquire if remediation had begun.1/21/09 - Obligado - Email from Sin: They mobilized to the site 1/12/09 but had difficulty drilling due to boulders. They will switch to ODEX drilling and return to the site on 1/26/09.5/27/09 - Obligado - Sent email to Daren requriing submission of overdue montioring reports. Required that going forward please submit the quarterly reports on a CD to the Department no later than 30 days after the end of the calendar quarter - i.e., the 1st Quarter report should be submitted by April 30, the 2nd Quarter report by July 30, etc. For sites undergoing chemical oxidation, the reports should include summary of any injection activities, and results of all performance sampling. 9/22/09 - Obligado - Reviewed quartelry reports - The concentration of VOCs decreased in MWATC1, MW13, and MW27. VOCs increased in MWATC3. According to the report the chemical oxidants have been consumed and the second phase of ISCO injections will be performed using the same injection points as the first injection event and began on June 1, 2009. Sent email to Daren requiring hydrographs for each well showing water table fluctuations, BTEX and MTBE concentration trends, and free product thickness (if present) over time. The graphs should show all data dating back to when the wells were first installed. The graphs should also indicate dates of any remedial actions, such as excavations or chemical injections. 1/6/10 - Obligado - Have not received 3Q09 quarterly report for 622 Atlantic and 179 Flatbush. I sent email to Sin Senh of Roux to submit reports ASAP.1/8/10 - Obligado - I received the 3Q09 quarterly report. I emailed Frank Cherena to remind him that the 4Q09 report was due by the end of the month. 2/10/10 - Obligado - I received the January 2010 sampling report. Ground water concentrations rebounded sigificantly in the most recent sampling round. At 622 Atlantic, concentrations of total VOCs in MW13 increased to 10,689 ug/L. On 179 flatbush, MW27 was destroyed and could not be sampled. Recommends discussing these results at the next meeting.2/11/10 - Obligado - Held a meeting with Roux Associates Sin Senh and Charlie McGuckin, and attorney Richard Leeland, all representing Forest City Ratner. DEC Brevdo, Obligado, and Tibbe attended. Roux presented revised drawings of the Arena development plan. The proposed foundation is not as deep as orinigally proposed in the RAP, aproximately 5 to 10 feet heigher. As a result, additional contamination soil at 622 Atlantic would be left un excavated. According to Roux the with the capping of these soils in additiona to the agressive ground water remedy, the vadose contaminated soils will not impact ground water. DEC pointed out that the effeciveness of the ground water remedy has not yet been demonstrated, as the recent samplign results showed significant rebound. Roux will do additional aggressive injections to treat the saturated zone. They will also submit more information about the levels and amount of the contamianted soil which will remain as a result of the change in plans. Only a small portion of 179 flatbush is in the arena footprint. The other areas will be a plaza with no building on top. Accoring to Sin, MW27 will be reinstalled concurrent with the delineation of the 195 Flatbush site.2/18/14- Obligado - Completed REview of Remedial Action Completion Report (RACR) dated October 2012 and RACR Adendum Letter dated 2/10/14. Spill has been closed due to:1) All USts (8 800 gallon gasoline USts, one previously closed in palce 4000 gallon USts,a nd

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one 550 gallon waste oil UST were closed and removed.2) Contaminated soil excavated to depth 26 ft bgs. A total of 30,200 tons of soil was removed from teh 622 Atlantic AVenue property.3) 7 endpoint samples were collected. No VOC or SVOC exceedences were found at the arena foundation endpoint depth.4) 4 insitu chemical oxidation events were conducted in February 2009, June 2009, March 2010, and December 2010 to try and address the residual saturated impacts at 45 ft depth. A total of 14,200 lbs of Regenox was injected to try and reduce groundwater contaminant levels. MW13 demonstrated a 49% reduction in groundwater contaminant levels from baseline in 2008 to January 2010 prior to the well being destroyed. MWATC1 demonstrated a 39 % reduction in gw contaminant levels prior to being destroyed. 5)The plume was delineated and appeared to be shrinking6) Due to the depth of contamiantion and the presence of a vapor barrier beneath the arena and the size of the arena compared to the small size of the contaminant plume, vapor impacts are not a concern7) The source of the spill has been removed and the spill has been remediated to the extent feasible. 8) This spill no longer appears to poses a threat to human health or the enviroment.Spill Closed. RACR filed in edocs under spill #0107438

Remarks: LAB RESULT FROM TEST SOIL BORING SHOWED ELEVATEE READING-SITE REPORT TO FOLLOW.

Material:

Site ID:	96173
Operable Unit ID:	1005943
Operable Unit:	01
Material ID:	556740
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Q149 **SARAH J. HALE H.S. ANNEX** **NY AST** **U003394239**
WSW **500 PACIFIC STREET** **NY HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.172 mi.
909 ft. **Site 4 of 7 in cluster Q**

Relative:
Lower

Actual:
35 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-354724
Program Type:	PBS
UTM X:	586118.66738
UTM Y:	4504224.3772
Expiration Date:	06/28/2018
Site Type:	School

SARAH J. HALE H.S. ANNEX (Continued) **U003394239**

Affiliation Records:

Site Id:	17649
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	Not reported
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	8/25/2014

Site Id:	17649
Affiliation Type:	Mail Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	JAMES A. MERLO
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	1/29/2014

Site Id:	17649
Affiliation Type:	On-Site Operator
Company Name:	SARAH J. HALE VOC. AX.
Contact Type:	Not reported
Contact Name:	PLANT OPERATIONS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	17649
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY

SARAH J. HALE H.S. ANNEX (Continued) **U003394239**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	GDBREEN
Date Last Modified:	9/10/2014

Tank Info:

Tank Number:	001
Tank Id:	34549
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)

Tank Location:	4
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1930
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	07/17/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	34550
Material Code:	0002
Common Name of Substance:	#4 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)

SARAH J. HALE H.S. ANNEX (Continued) **U003394239**

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	4
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1930
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	07/17/2013
Material Name:	#4 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-354724
SWIS Code:	6101
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	500 PACIFIC STREET
Facility Type:	SCHOOL
Emergency:	SCHOOL SAFETY
Emergency Tel:	(212) 979-3300
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK C/O BOARD OF EDUCATION
Owner Address:	28-11 QUEENS PLAZA NORTH
Owner City,St,Zip:	LONG ISLAND CITY, NY 11101
Federal ID:	Not reported
Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5TH FLOOR
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/02/1998

SARAH J. HALE H.S. ANNEX (Continued) **U003394239**

Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	10000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND 10% OR MORE BELOW GROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND 10% OR MORE BELOW GROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	5000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking

SARAH J. HALE H.S. ANNEX (Continued) **U003394239**

Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

R150 **EDR US Hist Cleaners** **1015094627**
East **769 FULTON ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.173 mi.
914 ft. **Site 4 of 4 in cluster R**

Relative:
Higher

Actual:
70 ft.

EDR Historical Cleaners:

Name:	LOUISMA LAUNDROMAT
Year:	2007
Address:	769 FULTON ST
Name:	LOUISMA LAUNDROMAT
Year:	2008
Address:	769 FULTON ST
Name:	LOUISMA LAUNDROMAT
Year:	2009
Address:	769 FULTON ST

V151 **CON EDISON - MANHOLE 26604** **RCRA-LQG** **1016961106**
NW **31 FLATBUSH AVE** **NY MANIFEST** **NYP004335774**
1/8-1/4 **BROOKLYN, NY 11217**
0.174 mi.
921 ft. **Site 2 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

RCRA-LQG:

Date form received by agency:	03/27/2014
Facility name:	CON EDISON - MANHOLE 26604
Facility address:	31 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYP004335774
Mailing address:	IRVING PLACE, 15TH FL NE NEW YORK, NY 10003
Contact:	DENNIS HUACON
Contact address:	IRVING PLACE, 15TH FL NE NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 460-2757
Contact email:	HUACOND@CONED.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste

CON EDISON - MANHOLE 26604 (Continued) **1016961106**

during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/26/2013
Owner/Op end date:	Not reported

Owner/operator name:	CONSOLIDATED EDISON COMPANY OF NY, INC.
Owner/operator address:	IRVING PLACE NEW YORK, NY 10003
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/26/2013
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D008
. Waste name: LEAD

Historical Generators:

Date form received by agency:	08/26/2013
Site name:	CON EDISON MANHOLE: 26604
Classification:	Not a generator, verified

CON EDISON - MANHOLE 26604 (Continued) **1016961106**

Date form received by agency: 07/26/2013
Site name: CON EDISON MANHOLE: 26604
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004335774
Country: USA
Location Address 1: 31 FLATBUSH AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CON EDISON
Contact: TOM TEELING
Address: 4 IRVING PLACE 15TH FLOOR
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 07/25/2013
Trans1 Recv Date: 07/25/2013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/26/2013
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004335774
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 300
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1
Year: 2013
Manifest Tracking Num: 002084635GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported

CON EDISON - MANHOLE 26604 (Continued) **1016961106**

Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H110

W152 NNW 1/8-1/4 0.175 mi. 925 ft. **STRAND THEATRE 647 FULTON STREET BROOKLYN, NY 11217** **NY AST** **U004191947 N/A**

Site 1 of 4 in cluster W

Relative: Lower

Actual: 34 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-611850
Program Type:	PBS
UTM X:	586252.81584000005
UTM Y:	4504656.2817299999
Expiration Date:	04/24/2012
Site Type:	Municipality (Incl. Waste Water Treatment Plants, Utilities, Swimming Pools, etc.)

Affiliation Records:

Site Id:	466598
Affiliation Type:	Facility Owner
Company Name:	NYC DCAS
Contact Type:	VP
Contact Name:	KAY ZIAS
Address1:	ONE CENTRE STREET, 17TH FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10007
Country Code:	001
Phone:	(212) 669-8361
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/18/2012

Site Id:	466598
Affiliation Type:	Mail Contact
Company Name:	NYC ECONOMIC DEVELOPMENT CORP
Contact Type:	Not reported
Contact Name:	KAY ZIAS
Address1:	110 WILLIAM STREET
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10038
Country Code:	001
Phone:	(212) 312-3752
EMail:	KZIAS@NYCEDC.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/18/2012

Site Id:	466598
Affiliation Type:	On-Site Operator
Company Name:	STRAND THEATRE

STRAND THEATRE (Continued) **U004191947**

Contact Type:	Not reported
Contact Name:	CARMINE GIORDANO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 630-2422
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/18/2012

Site Id:	466598
Affiliation Type:	Emergency Contact
Company Name:	NYC DCAS
Contact Type:	Not reported
Contact Name:	KAY ZIAS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(212) 312-3752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	7/18/2012

Tank Info:

Tank Number:	001
Tank Id:	244839
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
F00 - Pipe External Protection - None
E02 - Piping Secondary Containment - Vault (with Access)
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	6
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	Not reported

STRAND THEATRE (Continued) **U004191947**

Capacity Gallons:	6000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	04/24/2012
Register:	True
Modified By:	MSBAPTIS
Last Modified:	07/18/2012
Material Name:	#2 Fuel Oil (On-Site Consumption)

W153 **BROOKLYN ACADEMY OF MUSIC** **NY LTANKS** **S102960149**
NNW **FULTON ST & ROCKWELL PL** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.177 mi.
933 ft. **Site 2 of 4 in cluster W**

Relative:
Lower

Actual:
34 ft.

LTANKS:

Site ID:	224482
Spill Number/Closed Date:	9709843 / 3/3/2003
Spill Date:	11/24/1997
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. (Highly Improbable)
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	11/24/1997
CID:	252
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/24/1997
Spill Record Last Update:	3/3/2003
Spiller Name:	DELORES BLACKWELL
Spiller Company:	BROOKLYN ACADEMY OF MUSIC
Spiller Address:	FULTON ST & ROCKWELL PL
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	DELORES BLACKWELL
Spiller Phone:	(718) 391-1297
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	185535
DEC Memo:	Not reported
Remarks:	DURING CONSTRUCTION WORK DONE AT MUSIC ACADEMY A UNK TANK WASDISCOVERED AND BELIEVED TO HAVE CAUSED SOIL CONTAMINATION.TANKHAS BEEN REMOVED AND SOIL TO BE STOCKPILED-SAMPLED AND REMOVED.

Material:

Site ID:	224482
Operable Unit ID:	1056210

BROOKLYN ACADEMY OF MUSIC (Continued) **S102960149**

Operable Unit:	01
Material ID:	328174
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Q154
WSW
1/8-1/4
0.178 mi.
938 ft.

CON EDISON MANHOLE 2593
3RD AVE & PACIFIC ST W OF IN-
BROOKLYN, NY 11217

RCRA NonGen / NLR **1015746993**
NY MANIFEST **NYP004249940**

Site 5 of 7 in cluster Q

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/17/2012
Facility name:	CON EDISON MANHOLE 2593
Facility address:	3RD AVE & PACIFIC ST W OF IN- TERSECTION BROOKLYN, NY 11217
EPA ID:	NYP004249940
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	CHRISTOPHER HOGAN
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-4689
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

CON EDISON MANHOLE 2593 (Continued) **1015746993**

Historical Generators:

Date form received by agency:	03/18/2012
Site name:	CON EDISON MANHOLE 2593
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004249940
Country:	USA
Location Address 1:	W/INT 3RD AVE & PACIFIC ST.
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON-MH 2593
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	03/18/2012
Trans1 Recv Date:	03/18/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/19/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004249940
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	Not reported
Quantity:	150.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	003203393FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

CON EDISON MANHOLE 2593 (Continued) **1015746993**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	03/18/2012
Trans1 Recv Date:	03/18/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/21/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004249940
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	363.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	001055525GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

V155 **29 FLATBUSH AVENUE** **NY BROWNFIELDS** **S110487598**
NW **29 FLATBUSH AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.178 mi.
942 ft. **Site 3 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

BROWNFIELDS:

Program:	BCP
Site Code:	395947
Acres:	.412
HW Code:	C224128
SWIS:	2401
Town:	New York City
Update By:	BXANDERS
Site Description:	Location: The site is located at 29 Flatbush Avenue in the borough of Brooklyn, City of New York, Kings County, New York and is identified on the local Tax Maps as block 2106, Lot 19(formerly lots 19 and 40).

29 FLATBUSH AVENUE (Continued) **S110487598**

Site Features:The site is about 0.412 acres in size and is bordered by Fulton Street to the north, Rockwell Place to the east, and Flatbush Avenue to the west. Adjacent properties principally consist of commercial, retail and office uses. Current Zone/Use:The site is owned by 29 Flatbush Associates, LLC and it is currently vacant. It is zoned for commercial and office buildings (C6-4). The proposed future use of the site will be mixed commercial and residential.Historic Use:The site was most recently developed as an asphalt-paved, hydraulic-lift parking lot, which operated from 1960 until 2004. At the time of the application, there were no on-site structures with the exception of a prefabricated parking lot attendants booth situated atop a concrete slab. The hydraulic aboveground car lifts are no longer present at the Site, and it is not known when operation of the lifts ceased. The Site was previously occupied by the Orpheum Theater (circa 1900), and prior to the theater the Site contained numerous residential dwellings, some including retail space, along Fulton Avenue, Flatbush Avenue and Rockwell Place. Past adjacent and surrounding properties consisted of residential, institutional and retail development.Site Geology and Hydrogeology:Soil at the site consists of a layer of urban fill extending from the surface to depths ranging from 12 to 24 feet below grade underlain by an unstratified glacial till. Groundwater is approximately 27 to 30 feet below grade surface and flows toward the southwest. June 7, 2013 - DEC signed the Certificate of Completion for this site.

Env Problem: Nature and Extent of Contamination:Piror to Remediation:Based on the investigations conducted to date, known contaminants including chlorinated solvents, semi-volatile organic compounds (SVOCs), metals, and pesticides are present in the subsurface. These contaminants are impacting soil and groundwater. Soil - No volatile organic compounds (VOCs) were detected in soil exceeding their respective SCGs. Soil sample results indicated that SVOCs, mainly carcinogenic polycyclic aromatic hydrocarbons (cPAHs), metals (primarily lead), and pesticides (primarily 4,4-DDT) at concentration exceeding Part 375 Unrestricted use SCOs. The reported total concentration of SVOCs detected in soil ranges from 1.4 ppm to 116 ppm, the total lead concentration reported ranges from 39 ppm to 2780 ppm, and the concentration of 4,4-DDT reported ranges from 0.0045 ppm to 0.0355 ppm. Groundwater - VOCs detected in groundwater include tetrachloroethylene (PCE) at concentrations ranging from 16 to 18 ppb which is only marginally above the standard. Coupled with the absence of VOCs in soil, the PCE is likely attributable to an upgradient source, and not derived from on-site contamination. Soil Vapor - VOCs detected in the eight soil vapor samples collected at the site include PCE. PCE was detected in one sample at a concentration of 73.24 ug/m3. The presence of VOCs in soil vapor is attributed to an unknown off-site source due to the lack of VOCs in on-site soil. Post-Remediation:Remediation at the site is complete. Prior to remediation, the primary contaminants of concern were Lead and SVOCs in soil.Significant Threat:NYSDEC in consultation with NYSDOH determined that the site does not pose a significant threat to the environment or public health based on the data available.

Health Problem: All contaminated soil has been removed from the site thereby eliminating potential human contact. Contaminated groundwater at the site is not used for drinking or other purposes as the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the

29 FLATBUSH AVENUE (Continued) **S110487598**

groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. New on-site buildings have been constructed with ventilated underground parking garages and vapor barriers minimizing the potential for vapor intrusion.

V156 **29 FLATBUSH ASSN LLC** **RCRA-LQG** **1014399954**
NW **29 FLATBUSH AVENUE** **NY MANIFEST** **NYR000180448**
1/8-1/4 **BROOKLYN, NY 11217** **NJ MANIFEST**
0.178 mi.
942 ft. **Site 4 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

RCRA-LQG:

Date form received by agency:	03/05/2012
Facility name:	29 FLATBUSH ASSN LLC
Facility address:	29 FLATBUSH AVENUE BROOKLYN, NY 11217
EPA ID:	NYR000180448
Mailing address:	SEVENTH AVENUE 15TH FLOOR NEW YORK, NY 10019
Contact:	MICHAEL DIGIACOMO
Contact address:	SEVENTH AVENUE 15TH FLOOR NEW YORK, NY 10019
Contact country:	US
Contact telephone:	(212) 262-1220
Contact email:	MDIGIACOMO@DERMOTCOMPANY.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	MICHAEL DIGIACOMO
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/29/2010
Owner/Op end date:	Not reported
Owner/operator name:	29 FLATBUSH ASSOCIATES LLC
Owner/operator address:	7TH AVE 15TH FLOOR

29 FLATBUSH ASSN LLC (Continued) **1014399954**

	NEW YORK, NY 10019
Owner/operator country:	US
Owner/operator telephone:	(212) 262-1220
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	11/28/2007
Owner/Op end date:	Not reported

Owner/operator name:	MICHAEL DIGIACOMO
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/23/2010
Owner/Op end date:	Not reported

Owner/operator name:	29 FLATBUSH ASSOCIATION, LLC
Owner/operator address:	WEST 57TH ST 5TH FLOOR
	NEW YORK, NY 10019
Owner/operator country:	US
Owner/operator telephone:	(212) 262-1220
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/29/2010
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D008
. Waste name:	LEAD

Historical Generators:

Date form received by agency:	01/24/2012
Site name:	29 FLATBUSH ASSOCIATES LLC
Classification:	Not a generator, verified

. Waste code:	D008
. Waste name:	LEAD

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Date form received by agency: 02/14/2011
Site name: 29 FLATBUSH ASSOCIATES LLC
Classification: Large Quantity Generator

. Waste code: D008
. Waste name: LEAD

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D008
Waste name: LEAD
Amount (Lbs): 1104800

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000180448
Country: USA
Location Address 1: 29 FLATBUSH AVENUE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: 29 FLATBUSH ASSOCIATES LLC
Contact: JOMILL GONZALOZ
Address: 729 7TH AVE
City/State/Zip: BROOKLYN, NY 11201
Country: USA
Phone: 212-262-1220

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJ0000363820
Trans2 State ID: Not reported
Generator Ship Date: 03/10/2011
Trans1 Recv Date: 03/10/2011
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/10/2011
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000180448
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 47080.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DT - Dump trucks

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008106470JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/25/2011
Trans1 Recv Date:	04/25/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/25/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	20.0
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008401111JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Generator Ship Date:	03/10/2011
Trans1 Recv Date:	03/10/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/10/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	49280.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008106472JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	50560.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400939JJK
Import Ind:	N
Export Ind:	N

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	52400.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400940JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	49840.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400941JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	69660.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400942JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	52540.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400943JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	59100.0

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400944JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	56740.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400948JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	50220.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400950JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	58120.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Manifest Tracking Num:	008400951JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2011
Trans1 Recv Date:	04/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	51780.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400952JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/25/2011
Trans1 Recv Date:	04/25/2011
Trans2 Recv Date:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

TSD Site Recv Date:	04/25/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	46840.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400953JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/25/2011
Trans1 Recv Date:	04/25/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/25/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	52560.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400954JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/28/2011
Trans1 Recv Date:	04/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	46920.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400964JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/28/2011
Trans1 Recv Date:	04/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	51580.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400965JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/28/2011
Trans1 Recv Date:	04/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	53360.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400966JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/28/2011
Trans1 Recv Date:	04/28/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	57240.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	008400967JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000363820
Trans2 State ID:	Not reported
Generator Ship Date:	04/25/2011
Trans1 Recv Date:	04/25/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/25/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000180448
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	20.0
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	1.0
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1.0

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Year:	2011
Manifest Tracking Num:	008401110JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H111

NJ MANIFEST:

EPA Id:	NYR000180448
Mail Address:	SEVENTH AVENUE
Mail City/State/Zip:	NEW YORK, NY 10019
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	MICHAEL DIGIACOMO
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	008400941JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	49,840.00 Pounds

Manifest Number:	008400942JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	69,660.00 Pounds

Manifest Number:	008400966JJK
EPA ID:	NYR000180448
Date Shipped:	4/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/28/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	53,360.00 Pounds

Manifest Number:	008400943JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	52,540.00 Pounds

Manifest Number:	008400950JJK

29 FLATBUSH ASSN LLC (Continued) **1014399954**

EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	50,220.00 Pounds

Manifest Number:	008400964JJK
EPA ID:	NYR000180448
Date Shipped:	4/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/28/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	46,920.00 Pounds

Manifest Number:	008106472JJK
EPA ID:	NYR000180448
Date Shipped:	3/10/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	3/10/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	3/10/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	49,280.00 Pounds

Manifest Number:	008401110JJK
EPA ID:	NYR000180448
Date Shipped:	4/25/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Cubic Yards

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Transporter SEQ ID:	1.00
Transporter-1 Date:	4/25/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/25/2011
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	20.00 Cubic Yard

Manifest Number:	008400967JJK
EPA ID:	NYR000180448
Date Shipped:	4/28/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/28/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/28/2011

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	57,240.00 Pounds

Manifest Number:	008106471JJK
EPA ID:	NYR000180448
Date Shipped:	3/10/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	3/10/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	3/10/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Quantity: 51,260.00 Pounds

Manifest Number: 008401111JJK
EPA ID: NYR000180448
Date Shipped: 4/25/2011
TSDF EPA ID: NJD991291105
Transporter EPA ID: NJ0000363820
Transporter 2 EPA ID: Not reported
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: Not reported
Date Trans2 Transported Waste: Not reported
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: Not reported
Generator EPA Facility Name: 29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name: LETICIA INC
TSDF EPA Facility Name: CLEAN EARTH OF NORTH JERSEY INC
QTY Units: Cubic Yards
Transporter SEQ ID: 1.00
Transporter-1 Date: 4/25/2011
Waste SEQ ID: 1.00
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: 4/25/2011
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Was Load Rejected: NEW YORK, NY 10019
Reason Load Was Rejected: Not reported

Waste:
Manifest Year: 2011 New Jersey Manifest Data
Waste Code: D008
Hand Code: H111
Quantity: 20.00 Cubic Yard

Manifest Number: 008400939JJK
EPA ID: NYR000180448
Date Shipped: 4/22/2011
TSDF EPA ID: NJD991291105
Transporter EPA ID: NJ0000363820
Transporter 2 EPA ID: Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	50,560.00 Pounds

Manifest Number:	008400940JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	52,400.00 Pounds

Manifest Number:	008400953JJK
EPA ID:	NYR000180448
Date Shipped:	4/25/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/25/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/25/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	46,840.00 Pounds

Manifest Number:	008400954JJK
EPA ID:	NYR000180448
Date Shipped:	4/25/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/25/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/25/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	52,560.00 Pounds

Manifest Number:	008400944JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	59,100.00 Pounds

Manifest Number:	008400948JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	56,740.00 Pounds

Manifest Number:	008400951JJK

29 FLATBUSH ASSN LLC (Continued) **1014399954**

EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	58,120.00 Pounds

Manifest Number:	008106470JJK
EPA ID:	NYR000180448
Date Shipped:	3/10/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	3/10/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	3/10/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	47,080.00 Pounds

Manifest Number:	008400952JJK
EPA ID:	NYR000180448
Date Shipped:	4/22/2011
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJ0000363820
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	Not reported
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported

29 FLATBUSH ASSN LLC (Continued) **1014399954**

Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	Not reported
Generator EPA Facility Name:	29 FLATBUSH AVENUE ASSOC LLC
Transporter-1 EPA Facility Name:	LETICIA INC
TSDF EPA Facility Name:	CLEAN EARTH OF NORTH JERSEY INC
QTY Units:	Pounds
Transporter SEQ ID:	1.00
Transporter-1 Date:	4/22/2011
Waste SEQ ID:	1.00
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	4/22/2011
Manifest Discrepancy Type:	Quantity
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10019
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2011 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H111
Quantity:	51,780.00 Pounds

V157 **350 LIVINGSTON ST** **NY UST** **U000395221**
NW **350 LIVINGSTON STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11201**
0.180 mi.
950 ft. **Site 5 of 11 in cluster V**

Relative:
Lower

Actual:
40 ft.

UST:

Id/Status:	2-094099 / Inactive
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	05/30/2017
UTM X:	586143.60140000004
UTM Y:	4504563.1409600005
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	2530
Affiliation Type:	Mail Contact
Company Name:	STEINERNYV, LLC
Contact Type:	Not reported
Contact Name:	DOUGLAS C. STEINER
Address1:	15 WASHINGTON AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11205
Country Code:	001

350 LIVINGSTON ST (Continued) **U000395221**

Phone:	(718) 858-1600
EMail:	DSTEINER@STEINERSTUDIOS.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	2530
Affiliation Type:	On-Site Operator
Company Name:	350 LIVINGSTON ST
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	2530
Affiliation Type:	Emergency Contact
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	DOUGLAS C. STEINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 858-1600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	2530
Affiliation Type:	Facility Owner
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	MGR
Contact Name:	DOUGLAS C. STEINER
Address1:	15 WASHINGTON AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11205
Country Code:	001
Phone:	(718) 858-1600
EMail:	WLEWIS@HIPUSA.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

350 LIVINGSTON ST (Continued) **U000395221**

Tank Info:

Tank Number:	001
Tank ID:	4416
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	10000
Install Date:	12/01/1965
Date Tank Closed:	09/17/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	08/19/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS
Last Modified:	12/04/2013

Equipment Records:

I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

V158 **THE HUB** **NY UST** **U000406766**
NW **345 SCHERMERHORN STREET AKA 350 LIVINGSTON STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.180 mi.
950 ft. **Site 6 of 11 in cluster V**

Relative:
Lower

Actual:
40 ft.

UST:

Id/Status:	2-243817 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	05/30/2017
UTM X:	586113.72837999999
UTM Y:	4504495.0756599996
Site Type:	Other

Affiliation Records:

Site Id:	9407
Affiliation Type:	Mail Contact
Company Name:	.W. GROSSER CONSULTING INC.
Contact Type:	Not reported
Contact Name:	DEREK ERSBAK
Address1:	630 JOHNSON AVENUE
Address2:	SUITE 7

THE HUB (Continued) **U000406766**

City:	BOHEMIA
State:	NY
Zip Code:	11716
Country Code:	001
Phone:	(631) 589-6353
EMail:	DEREKE@PWGROSSER.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/21/2014

Site Id:	9407
Affiliation Type:	On-Site Operator
Company Name:	CENTRAL BROOKLYN MEDICAL GROUP
Contact Type:	Not reported
Contact Name:	N/A
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	9407
Affiliation Type:	Emergency Contact
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	DOUGLAS C. STEINER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 858-1600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	12/4/2013

Site Id:	9407
Affiliation Type:	Facility Owner
Company Name:	HUB ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	15 WASHINGTON AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11205
Country Code:	001
Phone:	(718) 858-1600
EMail:	Not reported

THE HUB (Continued) **U000406766**

Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/21/2014

Tank Info:

Tank Number:	001
Tank ID:	25376
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3500
Install Date:	07/01/1953
Date Tank Closed:	06/01/2005
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	05/01/2007
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	CGFREEDM
Last Modified:	12/05/2013

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
H99 - Tank Leak Detection - Other
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination

Tank Number:	002
Tank ID:	218130
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	3500
Install Date:	06/01/2005
Date Tank Closed:	09/17/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	08/19/2013
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	MSBAPTIS

THE HUB (Continued) **U000406766**

Last Modified: 12/04/2013

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F04 - Pipe External Protection - Fiberglass
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
I02 - Overfill - High Level Alarm
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E04 - Piping Secondary Containment - Double-Walled (Underground)
L01 - Piping Leak Detection - Interstitial - Electronic Monitoring
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
G04 - Tank Secondary Containment - Double-Walled (Underground)

Tank Number:	003
Tank ID:	253356
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	10000
Install Date:	12/01/1965
Date Tank Closed:	09/17/2013
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	10/21/2014

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None

V159 **EDR US Hist Cleaners** **1015065767**
NW **48 FLATBUSH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.181 mi.
954 ft. **Site 7 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

EDR Historical Cleaners:

Name:	CINDERELLA CLEANERS & TAILOR
Year:	2006
Address:	48 FLATBUSH AVE

X160 WNW 1/8-1/4 0.181 mi. 956 ft. | **443/445 STATE STREET 443-445 STATE STREET BROOKLYN, NY 11217** | **NY AST** | **U003394591**
NY HIST AST | **N/A**

Site 1 of 4 in cluster X

Relative: Lower

Actual: 39 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-454842
Program Type:	PBS
UTM X:	586090.67257000005
UTM Y:	4504421.7958300002
Expiration Date:	09/17/2019
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	19981
Affiliation Type:	Facility Owner
Company Name:	HOBGOOD FAMILY LTD. PARTNERSHIP
Contact Type:	PARTNER
Contact Name:	LAURA HOBGOOD
Address1:	80 JORALEMAN ST.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 625-4671
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/5/2014

Site Id:	19981
Affiliation Type:	Mail Contact
Company Name:	LAURA HOBGOOD
Contact Type:	Not reported
Contact Name:	LAURA HOBGOOD
Address1:	80 JORALEMAN ST.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 625-4671
EMail:	EMHOLDINGCORP@AOL.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/5/2014

Site Id:	19981
Affiliation Type:	On-Site Operator
Company Name:	443/445 STATE STREET
Contact Type:	Not reported
Contact Name:	EDDIE REYES
Address1:	Not reported
Address2:	Not reported
City:	Not reported

443/445 STATE STREET (Continued) **U003394591**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 625-4671
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/5/2014

Site Id:	19981
Affiliation Type:	Emergency Contact
Company Name:	HOBGOOD FAMILY LTD. PARTNERSHIP
Contact Type:	Not reported
Contact Name:	LAURA HOBGOOD
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(917) 379-9752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/5/2014

Tank Info:

Tank Number:	001
Tank Id:	36854
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	06/24/1970
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS

443/445 STATE STREET (Continued) **U003394591**

Last Modified: 09/05/2014
Material Name: #2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-454842
SWIS Code:	6101
Operator:	FRANK IAMETTI
Facility Phone:	(718) 643-1742
Facility Addr2:	443 STATE STREET
Facility Type:	APARTMENT BUILDING
Emergency:	ELIA G. MALARA
Emergency Tel:	(718) 625-4671
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	HOBGOOD FAMILY PARTNERSHIP
Owner Address:	26 COURT STREET
Owner City,St,Zip:	BROOKLYN, NY 11201
Federal ID:	Not reported
Owner Tel:	(718) 625-4671
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	HOBGOOD FAMILY PARTNERSHIP, C/O E.M. HOLDING
Mailing Address:	26 COURT STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11201
Mailing Telephone:	(718) 625-4671
Owner Mark:	Second Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/30/1999
Expiration:	09/17/2004
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	2000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel

443/445 STATE STREET (Continued) **U003394591**

Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

Q161 **TEMPLE OF RESTORATION** **NY AST** **A100178528**
WSW **492 PACIFIC STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.182 mi.
959 ft. **Site 6 of 7 in cluster Q**

Relative:
Lower

Actual:
34 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-606367
Program Type:	PBS
UTM X:	586103.16725000006
UTM Y:	4504232.34301
Expiration Date:	06/19/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	28230
Affiliation Type:	Mail Contact
Company Name:	TEMPLE OF RESTORATION
Contact Type:	Not reported
Contact Name:	ANGELO BARBOSA
Address1:	515 DEAN STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 300-3625
EMail:	ANGELOBARB@AOL.COM
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	5/22/2013

Site Id:	28230
Affiliation Type:	On-Site Operator
Company Name:	TEMPLE OF RESTORATION

TEMPLE OF RESTORATION (Continued) **A100178528**

Contact Type:	Not reported
Contact Name:	NONE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 207-1634
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	5/22/2013

Site Id:	28230
Affiliation Type:	Emergency Contact
Company Name:	TEMPLE OF RESTORATION
Contact Type:	Not reported
Contact Name:	ANGELO BARB
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 300-3625
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	5/22/2013

Site Id:	28230
Affiliation Type:	Facility Owner
Company Name:	TEMPLE OF RESTORATION
Contact Type:	REPRESENTATIVE
Contact Name:	HABEEB CHOWDHRY
Address1:	492 PACIFIC STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 300-3625
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	5/22/2013

Tank Info:

Tank Number:	001
Tank Id:	61324
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

TEMPLE OF RESTORATION (Continued) **A100178528**

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None
G03 - Tank Secondary Containment - Vault (w/o access)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
H05 - Tank Leak Detection - In-Tank System (ATG)
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	05/01/1950
Capacity Gallons:	1500
Tightness Test Method:	21
Date Test:	12/15/2009
Next Test Date:	Not reported
Date Tank Closed:	09/02/2013
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/17/2013
Material Name:	#2 Fuel Oil (On-Site Consumption)

W162 **CHASE METROTECH CENTER** **NY LTANKS** **S102960484**
NNW **CHASE METROTECH CENTER** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.184 mi.
969 ft. **Site 3 of 4 in cluster W**

Relative:
Lower

Actual:
34 ft.

LTANKS:

Site ID:	295106
Spill Number/Closed Date:	9709176 / 11/6/1997
Spill Date:	11/6/1997
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	11/6/1997
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/6/1997
Spill Record Last Update:	11/10/1997
Spiller Name:	CALLER
Spiller Company:	CHASE METROTECH CENTER

CHASE METROTECH CENTER (Continued) **S102960484**

Spiller Address:	CHASE METROTECH CENTER
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	(718) 242-8756
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	238791
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT" SPILL CONTAINED IN FRONT OF BUILDING, IN SEWERS. DEP ALSO NOTIFIED. 11:30 TO PROCEED WITH PRESSURE WASHING (ABSORBANT PICKED UP ~ 300LBS TO BE REMOVED BY 36 CONTRACTOR.
Remarks:	overfilled storage tank.

Material:

Site ID:	295106
Operable Unit ID:	1052241
Operable Unit:	01
Material ID:	331094
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	70
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Q163 **BETHLEHEM CHURCH TTF** **NY LTANKS** **S110045441**
WSW **490 PACIFIC ST** **NY E DESIGNATION** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.185 mi.
975 ft. **Site 7 of 7 in cluster Q**

Relative:
Lower

Actual:
33 ft.

LTANKS:

Site ID:	421597
Spill Number/Closed Date:	0908933 / 9/30/2010
Spill Date:	11/9/2009
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	LXZIELIN
Referred To:	Not reported
Reported to Dept:	11/9/2009
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

BETHLEHEM CHURCH TTF (Continued) **S110045441**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/9/2009
Spill Record Last Update:	9/30/2010
Spiller Name:	JOHN LITKE
Spiller Company:	BETHLEHEM CHURCH
Spiller Address:	490 PACIFIC ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	999
Spiller Contact:	TJ OCONNOR
Spiller Phone:	(516) 678-5115
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	370559
DEC Memo:	09/30/10 - LZReviewed correspondence (eDocs) from Bethlehem Lutheran Church concerning repairs done to the tank after it failed the tightness test. After the fill line had been replaced, the tank passed the tightness test. Obviously, the tank is located in a subterranean vault without access, but the UIS shows the tank as aboveground (see cross-reference). Sent out a spill closure letter that contains a requirement for tank information correction. The spill case is closed. 11/24/2009 TTF letter sent to:Rev. Paul KnudsenBethlehem Lutheran Church490 Pacific StreetBrooklyn, NY 11217
Remarks:	TANK TEST FAILURE ON A 1500 GALLON UST.

Material:

Site ID:	421597
Operable Unit ID:	1177483
Operable Unit:	01
Material ID:	2170277
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

E DESIGNATION:

Tax Lot(s):	29
Tax Block:	191
Borough Code:	Not reported
E-No:	E-273
Effective Date:	9/21/2011
Satisfaction Date:	Not reported
Ceqr Number:	11DCP110K
Ulurp Number:	110252ZMK
Zoning Map No:	16c
Description:	Hazardous Materials* Phase I and Phase II Testing Protocol
Lot Remediation Date:	Not reported

BETHLEHEM CHURCH TTF (Continued) **S110045441**

Description: Window Wall Attenuation & Alternate Ventilation
Lot Remediation Date: Not reported

164
NNE
1/8-1/4
0.185 mi.
976 ft.

45 SOUTH ELLIOT PLACE
45 SOUTH ELLIOT PLACE
BROOKLYN, NY 11217

NY AST **A100292381**
N/A

Relative:
Higher

Actual:
49 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-608185
Program Type:	PBS
UTM X:	586545.98274000001
UTM Y:	4504659.4743100004
Expiration Date:	01/21/2018
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	30037
Affiliation Type:	Facility Owner
Company Name:	ORION REALTY, LLC
Contact Type:	MANAGING MEMBER
Contact Name:	SANFORD NAGER
Address1:	106 SOUTH ELLIOT PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 596-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	11/2/2007

Site Id:	30037
Affiliation Type:	Mail Contact
Company Name:	S.R. NAGER MANAGEMENT
Contact Type:	Not reported
Contact Name:	SANFORD NAGER
Address1:	106 SOUTH ELLIOT PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 596-4100
EMail:	NAGER106@GMAIL.COM
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	9/18/2013

Site Id:	30037
Affiliation Type:	On-Site Operator
Company Name:	45 SOUTH ELLIOT PLACE

45 SOUTH ELLIOT PLACE (Continued) **A100292381**

Contact Type:	Not reported
Contact Name:	DAVID ROMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 852-3629
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	30037
Affiliation Type:	Emergency Contact
Company Name:	ORION REALTY, LLC
Contact Type:	Not reported
Contact Name:	SANFORD NAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 596-4100
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	1
Tank Id:	64852
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

	A00 - Tank Internal Protection - None
	B99 - Tank External Protection - Other
	G00 - Tank Secondary Containment - None
	I05 - Overfill - Vent Whistle
	D08 - Pipe Type - Equivalent Technology
	F99 - Pipe External Protection - Other
	C01 - Pipe Location - Aboveground
	H00 - Tank Leak Detection - None
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1920
Capacity Gallons:	4500
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

45 SOUTH ELLIOT PLACE (Continued) **A100292381**

Date Tank Closed:	Not reported
Register:	True
Modified By:	dxliving
Last Modified:	11/02/2007
Material Name:	#2 Fuel Oil (On-Site Consumption)

V165 **25 FLATBUSH AVE** **NY AST** **A100349534**
NW **25 FLATBUSH AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.186 mi.
984 ft. **Site 8 of 11 in cluster V**

Relative:
Lower

Actual:
37 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-611281
Program Type:	PBS
UTM X:	586173.45022
UTM Y:	4504625.8431099998
Expiration Date:	12/01/2018
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	425978
Affiliation Type:	Facility Owner
Company Name:	11-27 FLATBUSH C/O AVERY MGMT CORP
Contact Type:	AGENT
Contact Name:	MARYANNE KARPOVICH
Address1:	PO BOX 387
Address2:	Not reported
City:	SUFFERN
State:	NY
Zip Code:	10901
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/28/2013

Site Id:	425978
Affiliation Type:	Mail Contact
Company Name:	11-27 FLATBUSH AVE LLC
Contact Type:	Not reported
Contact Name:	MARYANNE KARPOVICH
Address1:	PO BOX 387
Address2:	Not reported
City:	SUFFERN
State:	NY
Zip Code:	10901
Country Code:	001
Phone:	(845) 364-0202
EMail:	MARYANNE@AVERYCOMPANIES.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/28/2013

25 FLATBUSH AVE (Continued) **A100349534**

Site Id:	425978
Affiliation Type:	On-Site Operator
Company Name:	25 FLATBUSH AVE
Contact Type:	Not reported
Contact Name:	AVERY MGMT CORP
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/15/2010

Site Id:	425978
Affiliation Type:	Emergency Contact
Company Name:	11-27 FLATBUSH C/O AVERY MGMT CORP
Contact Type:	Not reported
Contact Name:	MARYANNE KARPOVICH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	N/A
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	3/15/2010

Tank Info:

Tank Number:	001
Tank Id:	233345
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A01 - Tank Internal Protection - Epoxy Liner
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
L00 - Piping Leak Detection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron

25 FLATBUSH AVE (Continued) **A100349534**

Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/1998
Capacity Gallons:	4000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	MSBAPTIS
Last Modified:	10/28/2013
Material Name:	#2 Fuel Oil (On-Site Consumption)

T166 **VERIZON MANHOLE 12** **RCRA NonGen / NLR** **1009399859**
SSE **PACIFIC ST & FLATBUSH AVE MH12** **NYP000959734**
1/8-1/4 **BROOKLYN, NY 11273**
0.187 mi.
985 ft. **Site 6 of 6 in cluster T**

Relative:
Higher

Actual:
45 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/09/2006
Facility name:	VERIZON MANHOLE 12
Facility address:	PACIFIC ST & FLATBUSH AVE MH12 LOG 15800 BA 1973 WIRE CTR 055 BROOKLYN, NY 11273
EPA ID:	NYP000959734
Mailing address:	HANSE AVE FREEPORT, NY 11520
Contact:	J QUATRALE
Contact address:	HANSE AVE FREEPORT, NY 11520
Contact country:	US
Contact telephone:	(718) 292-8166
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/08/2006

VERIZON MANHOLE 12 (Continued) **1009399859**

Site name: VERIZON MANHOLE 12
Classification: Not a generator, verified

Date form received by agency: 02/07/2006
Site name: VERIZON MANHOLE 12
Classification: Not a generator, verified

Violation Status: No violations found

Y167 **ROYAL FRENCH CLEANERS** **RCRA NonGen / NLR** **1000147764**
WSW **68-32 3RD AVE** **FINDS** **NYD981081466**
1/8-1/4 **BROOKLYN, NY 11220** **NY MANIFEST**
0.188 mi.
990 ft. **Site 1 of 5 in cluster Y**

Relative:
Lower

Actual:
32 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: ROYAL FRENCH CLEANERS
Facility address: 68-32 3RD AVE
BROOKLYN, NY 11220
EPA ID: NYD981081466
Mailing address: 3RD AVE
BROOKLYN, NY 11220
Contact: Not reported
Contact address: 3RD AVE
BROOKLYN, NY 11220
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LI CHI PANG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LI CHI PANG
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 01/01/2006
Site name: ROYAL FRENCH CLEANERS
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: ROYAL FRENCH CLEANERS
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 05/08/1985
Site name: ROYAL FRENCH CLEANERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 12/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA Contractor/Grantee

ROYAL FRENCH CLEANERS (Continued) **1000147764**

FINDS:

Registry ID: 110004395930

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYD981081466
Country:	USA
Location Address 1:	6832 - 3 AVENUE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11220
Location Zip Code 4:	Not reported

Mailing Info:

Name:	ROYAL FRENCH CLEANERS
Contact:	ROYAL FRENCH CLEANERS
Address:	6832 - 3 AVENUE
City/State/Zip:	BROOKLYN, NY 11220
Country:	USA
Phone:	718-238-1888

Manifest:

Document ID:	NYC4075086
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	05/02/1996
Trans1 Recv Date:	05/02/1996
Trans2 Recv Date:	05/07/1996
TSD Site Recv Date:	05/08/1996
Part A Recv Date:	05/10/1996
Part B Recv Date:	05/30/1996
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Document ID:	NYA6606461
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	IL009
Trans2 State ID:	Not reported
Generator Ship Date:	03/19/1987
Trans1 Recv Date:	03/19/1987
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/19/1987
Part A Recv Date:	04/22/1987
Part B Recv Date:	03/26/1987
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD000805911
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00240
Units:	P - Pounds
Number of Containers:	003
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1987

Document ID:	NYC4199321
Manifest Status:	Completed copy
Trans1 State ID:	NYAM6252
Trans2 State ID:	4295AZ
Generator Ship Date:	07/22/1996
Trans1 Recv Date:	07/22/1996
Trans2 Recv Date:	07/26/1996
TSD Site Recv Date:	07/27/1996
Part A Recv Date:	08/05/1996
Part B Recv Date:	08/15/1996
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2065454
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	04/20/1993
Trans1 Recv Date:	04/20/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/20/1993
Part A Recv Date:	04/30/1993

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Part B Recv Date:	04/29/1993
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC3575924
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	06/28/1995
Trans1 Recv Date:	06/28/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/28/1995
Part A Recv Date:	07/10/1995
Part B Recv Date:	07/10/1995
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	NYA9592918
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	12/27/1989
Trans1 Recv Date:	12/27/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/27/1989
Part A Recv Date:	01/04/1990
Part B Recv Date:	01/02/1990
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1989

Document ID:	NYC3556034
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	04/07/1995
Trans1 Recv Date:	04/07/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/07/1995
Part A Recv Date:	04/17/1995
Part B Recv Date:	04/18/1995
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	NYC3682001
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	09/20/1995
Trans1 Recv Date:	09/20/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/20/1995
Part A Recv Date:	09/29/1995
Part B Recv Date:	10/02/1995
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	NYA9443294
Manifest Status:	Completed copy
Trans1 State ID:	000000000

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Trans2 State ID:	000000000
Generator Ship Date:	07/25/1989
Trans1 Recv Date:	07/25/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/25/1989
Part A Recv Date:	07/31/1989
Part B Recv Date:	08/02/1989
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00160
Units:	P - Pounds
Number of Containers:	002
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYC0209182
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	04/10/1990
Trans1 Recv Date:	04/10/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/10/1990
Part A Recv Date:	05/11/1990
Part B Recv Date:	04/18/1990
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYA9542733
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	01/19/1990
Trans1 Recv Date:	01/19/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/19/1990
Part A Recv Date:	01/25/1990
Part B Recv Date:	01/31/1990
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYC3210254
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	08/25/1994
Trans1 Recv Date:	08/25/1994
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/25/1994
Part A Recv Date:	09/06/1994
Part B Recv Date:	09/06/1994
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1994

Document ID:	NYC0759464
Manifest Status:	Completed copy
Trans1 State ID:	NYAT8756
Trans2 State ID:	Not reported
Generator Ship Date:	03/08/1991
Trans1 Recv Date:	03/08/1991
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/08/1991
Part A Recv Date:	03/15/1991
Part B Recv Date:	03/20/1991
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00240
Units:	P - Pounds
Number of Containers:	004
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Year: 1991

Document ID: NYC0127258
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 02/22/1990
Trans1 Recv Date: 02/22/1990
Trans2 Recv Date: / /
TSD Site Recv Date: 02/22/1990
Part A Recv Date: 03/14/1990
Part B Recv Date: 03/07/1990
Generator EPA ID: NYD981081466
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1990

Document ID: NYC3379792
Manifest Status: Completed copy
Trans1 State ID: DF2859NY
Trans2 State ID: Not reported
Generator Ship Date: 12/15/1994
Trans1 Recv Date: 12/15/1994
Trans2 Recv Date: / /
TSD Site Recv Date: 12/15/1994
Part A Recv Date: 12/28/1994
Part B Recv Date: 12/23/1994
Generator EPA ID: NYD981081466
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1994

Document ID: NYC2828790
Manifest Status: Completed copy
Trans1 State ID: DF2859NY
Trans2 State ID: Not reported
Generator Ship Date: 03/11/1994
Trans1 Recv Date: 03/11/1994

ROYAL FRENCH CLEANERS (Continued) **1000147764**

Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/11/1994
Part A Recv Date:	/ /
Part B Recv Date:	03/23/1994
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1994

Document ID:	NYC3992253
Manifest Status:	Completed copy
Trans1 State ID:	JE4550N
Trans2 State ID:	AR004
Generator Ship Date:	02/07/1996
Trans1 Recv Date:	02/07/1996
Trans2 Recv Date:	02/09/1996
TSD Site Recv Date:	02/10/1996
Part A Recv Date:	02/16/1996
Part B Recv Date:	02/29/1996
Generator EPA ID:	NYD981081466
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Z168 **SARAH J HALE SCHOOL** **RCRA NonGen / NLR** **1000552329**
SW **3RD & PACIFIC AVE** **NY MANIFEST** **NYD986947265**
1/8-1/4 **BROOKLYN, NY 11201**
0.193 mi.
1018 ft. **Site 1 of 4 in cluster Z**

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	SARAH J HALE SCHOOL
Facility address:	3RD & PACIFIC AVE BROOKLYN, NY 11201
EPA ID:	NYD986947265
Contact:	Not reported
Contact address:	3RD & PACIFIC AVE BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	Not reported

SARAH J HALE SCHOOL (Continued) **1000552329**

Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NYC BD OF EDU
Owner/operator address: 110 LIVINGSTON ST
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 935-2000
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NYC BD OF ED
Owner/operator address: 110 LIVINGSTON ST
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: (718) 935-2000
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: SARAH J HALE SCHOOL
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: SARAH J HALE SCHOOL
Classification: Not a generator, verified

Date form received by agency: 04/08/1991
Site name: SARAH J HALE SCHOOL
Classification: Large Quantity Generator

SARAH J HALE SCHOOL (Continued) **1000552329**

. Waste code: X003
. Waste name: OTHER STATE REGULATED WASTES [i.e., DIESEL FUEL, GASOLINE AND HOME HEATING OIL]

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD986947265
Country: USA
Location Address 1: 345 DEAN ST
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: NYC BOARD OF EDUCATION
Contact: N/S
Address: 345 DEAN ST
City/State/Zip: BROOKLYN, NY 11217
Country: USA
Phone: 718-797-0447

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 06/06/2011
Trans1 Recv Date: 06/06/2011
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/13/2011
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD986947265
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 60.0
Units: K - Kilograms (2.2 pounds)
Number of Containers: 4.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2011
Manifest Tracking Num: 002489683FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported

SARAH J HALE SCHOOL (Continued) **1000552329**

Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	06/06/2011
Trans1 Recv Date:	06/06/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/13/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986947265
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	200.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	10.0
Container Type:	BA - Burlap, plastic, paper bags
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002489683FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYG3329964
Manifest Status:	Not reported
Trans1 State ID:	68235AKNY
Trans2 State ID:	Not reported
Generator Ship Date:	06/12/2002
Trans1 Recv Date:	06/12/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986947265
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00001
Units:	P - Pounds

SARAH J HALE SCHOOL (Continued) **1000552329**

Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00001
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3329973
Manifest Status:	Not reported
Trans1 State ID:	68235AKNY
Trans2 State ID:	Not reported
Generator Ship Date:	06/12/2002
Trans1 Recv Date:	06/12/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986947265
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Quantity:	00002
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Z169 SW 1/8-1/4 0.193 mi. 1018 ft. | **BROOKLYN HIGH SCHOOL OF THE ARTS**
345 DEAN ST
BROOKLYN, NY 11217 | **RCRA-CESQG** | **1011863413**
NYN008020109

Site 2 of 4 in cluster Z

Relative: Lower

Actual: 34 ft.

RCRA-CESQG:

Date form received by agency:	05/08/2008
Facility name:	BROOKLYN HIGH SCHOOL OF THE ARTS
Facility address:	345 DEAN ST BROOKLYN, NY 11217
EPA ID:	NYN008020109
Mailing address:	DEAN ST BROOKLYN, NY 11217
Contact:	LLAIRD N O'NEIL
Contact address:	DEAN ST BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	(718) 855-2412
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

Evaluation Action Summary:

BROOKLYN HIGH SCHOOL OF THE ARTS (Continued) **1011863413**

Evaluation date:	05/08/2008
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA

Z170 SW 1/8-1/4 0.193 mi. 1018 ft. | **PUBLIC SCHOOL 655K 345 DEAN ST BROOKLYN, NY 11217** | **RCRA-LQG NY MANIFEST** | **1001818209 NYR000077164**

Site 3 of 4 in cluster Z

Relative: Lower

Actual: 34 ft.

RCRA-LQG:

Date form received by agency:	02/17/2012
Facility name:	PUBLIC SCHOOL 655K
Facility address:	345 DEAN ST BROOKLYN, NY 11217
EPA ID:	NYR000077164
Mailing address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact:	ALEXANDER LEMPERT
Contact address:	THOMSON AVE LONG ISLAND CITY, NY 11101
Contact country:	US
Contact telephone:	(718) 472-8501
Contact email:	ALEMPERT@NYCSCA.ORG
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	NYC DEPT OF ED
Owner/operator address:	VERNON BLVD LONG ISLAND CITY, NY 11101
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1930
Owner/Op end date:	Not reported
Owner/operator name:	NYC DEPT OF ED
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Municipal

PUBLIC SCHOOL 655K (Continued) **1001818209**

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1930
Owner/Op end date: Not reported

Owner/operator name: NYC BD OF ED
Owner/operator address: 28-11 QUEENS PLZ N
LONG ISLAND CITY, NY 11101
Owner/operator country: Not reported
Owner/operator telephone: (718) 391-6475
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: B007
. Waste name: B007

Historical Generators:
Date form received by agency: 01/01/2007
Site name: NYC BD OF ED - SARA JANE HIGH SCHOOL
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: NYC BD OF ED - SARA JANE HIGH SCHOOL
Classification: Not a generator, verified

Date form received by agency: 10/04/1999
Site name: NYC BD OF ED - SARA JANE HIGH SCHOOL
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000077164

PUBLIC SCHOOL 655K (Continued) **1001818209**

Country:	USA
Location Address 1:	345 DEAN STREET
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYC BD OF ED - SARA JANE HIGH SCHOOL
Contact:	NYC SCHOOL CONSTRUCTION AUTHORITY - PS655K
Address:	30-30 THOMPSON AVE
City/State/Zip:	LONG ISLAND CITY, NY 11101
Country:	USA
Phone:	718-478-8501

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	12/03/2011
Trans1 Recv Date:	12/03/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/13/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	2190.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	000097194JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878

PUBLIC SCHOOL 655K (Continued) **1001818209**

Trans2 State ID:	Not reported
Generator Ship Date:	03/23/2012
Trans1 Recv Date:	03/23/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/02/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1736.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005232943JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/07/2012
Trans1 Recv Date:	04/07/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/17/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	2563.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	005232959JJK
Import Ind:	N

PUBLIC SCHOOL 655K (Continued) **1001818209**

Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	01/21/2012
Trans1 Recv Date:	01/21/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1500.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925616JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	01/28/2012
Trans1 Recv Date:	01/28/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/30/2012
Part A Recv Date:	Not reported

PUBLIC SCHOOL 655K (Continued) **1001818209**

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	2000.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925619JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	02/25/2012
Trans1 Recv Date:	02/25/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/27/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1781.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925647JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

PUBLIC SCHOOL 655K (Continued) **1001818209**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD148714878
Trans2 State ID:	Not reported
Generator Ship Date:	02/18/2012
Trans1 Recv Date:	02/18/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/27/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1781.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925648JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2012
Trans1 Recv Date:	04/21/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported

PUBLIC SCHOOL 655K (Continued) **1001818209**

Quantity:	1118.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925900JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	NJD080631369
Generator Ship Date:	04/21/2012
Trans1 Recv Date:	04/21/2012
Trans2 Recv Date:	04/23/2012
TSD Site Recv Date:	04/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	Not reported
Quantity:	4275.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	19.0
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925901JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

PUBLIC SCHOOL 655K (Continued) **1001818209**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYR000081661
Trans2 State ID:	NJD080631369
Generator Ship Date:	04/21/2012
Trans1 Recv Date:	04/21/2012
Trans2 Recv Date:	04/23/2012
TSD Site Recv Date:	04/24/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD980536593
Waste Code:	Not reported
Quantity:	2025.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	9.0
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925901JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	03/10/2012
Trans1 Recv Date:	03/10/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/19/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1500.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0

PUBLIC SCHOOL 655K (Continued) **1001818209**

Year:	2012
Manifest Tracking Num:	000097218JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	02/04/2012
Trans1 Recv Date:	02/04/2012
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	02/13/2012
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000077164
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID048090633
Waste Code:	Not reported
Quantity:	1213.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2012
Manifest Tracking Num:	008925630JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Z171 SW 1/8-1/4 0.193 mi. 1018 ft. | **SARAH J. HALE H.S. (K655)**
345 DEAN STREET
BROOKLYN, NY 11217

Site 4 of 4 in cluster Z

NY AST | **A100178501**
N/A

Relative: Lower

Actual: 34 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-606324
Program Type:	PBS
UTM X:	586070.33140000002
UTM Y:	4503639.96942
Expiration Date:	07/12/2016
Site Type:	School

Affiliation Records:

Site Id:	28187
Affiliation Type:	Facility Owner
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	MANAGER, FUEL DIVISION
Contact Name:	MUNENDRA SHARMA
Address1:	44-36 VERNON BLVD.
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	MSHARMA@SCHOOLS.NYC.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2/10/2012

Site Id:	28187
Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BLVD.
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5738
EMail:	JMERLO@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	2/10/2012

Site Id:	28187
Affiliation Type:	On-Site Operator
Company Name:	SARAH J. HALE H.S. (K655)
Contact Type:	Not reported
Contact Name:	PLANT OPERATION
Address1:	Not reported
Address2:	Not reported
City:	Not reported

SARAH J. HALE H.S. (K655) (Continued) **A100178501**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 349-5400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	28187
Affiliation Type:	Emergency Contact
Company Name:	NYC DEPARMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	SCHOOL SAFETY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 935-3300
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	6/24/2011

Tank Info:

Tank Number:	001
Tank Id:	61265
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None
B01 - Tank External Protection - Painted/Asphalt Coating
I02 - Overfill - High Level Alarm
I04 - Overfill - Product Level Gauge (A/G)
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/2001
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

SARAH J. HALE H.S. (K655) (Continued) **A100178501**

Date Tank Closed:	Not reported
Register:	True
Modified By:	KAKYER
Last Modified:	08/02/2006
Material Name:	#2 Fuel Oil (On-Site Consumption)

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172 ESE 1/8-1/4 0.194 mi. 1023 ft. | **FIRST ATLANTIC TERMIN HOUS CO**
170 S PORTLAND AVE
BROOKLYN, NY 11217 | **NY UST** **U001837025**
NY HIST UST **N/A**

Relative: Higher

Actual: 56 ft.

UST:

Id/Status:	2-333069 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	08/28/2007
UTM X:	586727.10664999997
UTM Y:	4504161.0359699996
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	15790
Affiliation Type:	Facility Owner
Company Name:	FIRST ATLANTIC TERMIN HOUS CO
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	170 S PORTLAND AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-1688
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	12/15/2004

Site Id:	15790
Affiliation Type:	Mail Contact
Company Name:	FIRST ATLANTIC TERMIN HOUS CO
Contact Type:	Not reported
Contact Name:	PATRICIA PETHEL
Address1:	161 SOUTH ELLIOTT PLACE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 636-1688
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	12/15/2004

Site Id:	15790

FIRST ATLANTIC TERMIN HOUS CO (Continued) **U001837025**

Affiliation Type:	On-Site Operator
Company Name:	FIRST ATLANTIC TERMIN HOUS CO
Contact Type:	Not reported
Contact Name:	MANAGEMENT MHR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 387-1331
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	15790
Affiliation Type:	Emergency Contact
Company Name:	FIRST ATLANTIC TERMIN HOUS CO
Contact Type:	Not reported
Contact Name:	MANAGEMENT MHR
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 387-1331
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	20389
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	20000
Install Date:	Not reported
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None

FIRST ATLANTIC TERMIN HOUS CO (Continued) **U001837025**

D01 - Pipe Type - Steel/Carbon Steel/Iron
F06 - Pipe External Protection - Wrapped
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
H00 - Tank Leak Detection - None

HIST UST:

PBS Number:	2-333069
SPDES Number:	Not reported
Emergency Contact:	MANAGEMENT MHR
Emergency Telephone:	(718) 387-1331
Operator:	MANAGEMENT MHR
Operator Telephone:	(718) 387-1331
Owner Name:	FIRST ATLANTIC TERMIN HOUS CO
Owner Address:	170 S PORTLAND AVE
Owner City,St,Zip:	BKLYN, NY 11217
Owner Telephone:	(718) 636-1688
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	FIRST ATLANTIC TERMIN HOUS CO
Mailing Address:	161 SOUTH ELLIOTT PLACE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BKLYN, NY 11217
Mailing Contact:	PATRICIA PETHEL
Mailing Telephone:	(718) 636-1688
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	170 S PORTLAND AVE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	APARTMENT BUILDING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	08/18/1997
Expiration Date:	08/28/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	20000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

FIRST ATLANTIC TERMIN HOUS CO (Continued) **U001837025**

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Wrapped (Piping)
Second Containment:	Vault (w/access)
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
Lat/long:	Not reported

AA173 **99 LAFAYETTE AVE RLTY CORP** **NY HIST UST** **U003127858**
ENE **99 LAFAYETTE AVENUE** **N/A**
1/8-1/4 **BKLYN, NY 11238**
0.195 mi.
1028 ft. **Site 1 of 6 in cluster AA**

Relative:
Higher

Actual:
61 ft.

HIST UST:

PBS Number:	2-305715
SPDES Number:	Not reported
Emergency Contact:	MR. DARIOS BYNOE
Emergency Telephone:	(718) 624-9390
Operator:	MR. DARIOS BYNOE
Operator Telephone:	(718) 624-9390
Owner Name:	99 LAFAYETTE AVENUE REALTYLTY CORPORATION
Owner Address:	86 LIVINGSTON STREET
Owner City,St,Zip:	BROOKLYN, NY 11201
Owner Telephone:	(718) 852-1616
Owner Type:	Private Resident
Owner Subtype:	Not reported
Mailing Name:	99 LAFAYETTE AVENUE RLTY CORP
Mailing Address:	86 LIVINGSTON STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11201
Mailing Contact:	BPC MANAGEMENT CORP.
Mailing Telephone:	(718) 852-1616
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	99 LAFAYETTE AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported

99 LAFAYETTE AVE RLTY CORP (Continued) **U003127858**

Facility Type:	APARTMENT BUILDING
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	01/05/1999
Expiration Date:	07/14/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	4000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	4000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	GALVANIZED STEEL
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Vault (w/o access)
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	09/01/1998
Next Test Date:	09/01/2003
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Horner EZ Check
Deleted:	False
Updated:	True
Lat/long:	Not reported

AA174 **99 LAFAYETTE AVE** **NY AST** **A100322494**
ENE **99 LAFAYETTE AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.195 mi.
1028 ft. **Site 2 of 6 in cluster AA**

Relative:
Higher

Actual:
61 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-305715
Program Type:	PBS
UTM X:	586706.60513000004
UTM Y:	4504527.7727300003
Expiration Date:	02/20/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	13980
Affiliation Type:	Mail Contact
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	Not reported
Contact Name:	MR. ERIC UNDERWOOD
Address1:	729 SEVENTH AVENUE
Address2:	15TH FLOOR
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001
Phone:	(347) 865-4655
EMail:	EUNDERWOOD@DERMOTCOMPANY.COM
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/6/2011

Site Id:	13980
Affiliation Type:	On-Site Operator
Company Name:	99 LAFAYETTE AVE
Contact Type:	Not reported
Contact Name:	DARIUS
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 219-2423
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/8/2011

Site Id:	13980
Affiliation Type:	Emergency Contact
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	Not reported
Contact Name:	VILMA ROSARIO
Address1:	Not reported
Address2:	Not reported
City:	Not reported

99 LAFAYETTE AVE (Continued) **A100322494**

State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 331-6558
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/8/2011

Site Id:	13980
Affiliation Type:	Facility Owner
Company Name:	DERMOT REALTY MANAGEMENT CO.
Contact Type:	ASSISTANT PROPERTY MANAGER
Contact Name:	ERIC UNDERWOOD
Address1:	729 7TH AVE 15TH FLOOR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10019
Country Code:	001
Phone:	(347) 865-4655
EMail:	Not reported
Fax Number:	Not reported
Modified By:	BVCAMPBE
Date Last Modified:	2/28/2012

Tank Info:

Tank Number:	001
Tank Id:	16352
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
I05 - Overfill - Vent Whistle
J02 - Dispenser - Suction Dispenser
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	11/06/1932
Capacity Gallons:	5000
Tightness Test Method:	21
Date Test:	07/03/2007
Next Test Date:	Not reported
Date Tank Closed:	Not reported

99 LAFAYETTE AVE (Continued) **A100322494**

Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/29/2008
Material Name:	#2 Fuel Oil (On-Site Consumption)

AB175 **CON EDISON** **NY MANIFEST** **S117065412**
West **494 ATLANTIC AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.196 mi.
1036 ft. **Site 1 of 4 in cluster AB**

Relative:
Lower

Actual:
36 ft.

NY MANIFEST:

EPA ID:	NYP004579652
Country:	USA
Location Address 1:	494 ATLANTIC AVE
Location Address 2:	SB 14789
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/27/2014
Trans1 Recv Date:	06/27/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/06/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004579652
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	50
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	013254892JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

CON EDISON (Continued) **S117065412**

Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H110

X176 West 1/8-1/4 0.198 mi. 1047 ft. **THREE STARS CONTRACTING INC** **RCRA NonGen / NLR** **1001482944**
479 ATLANTIC AVE **FINDS** **NYR000069658**
BROOKLYN, NY 11217 **NY MANIFEST**

Site 2 of 4 in cluster X

Relative: Lower

Actual: 36 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: THREE STARS CONTRACTING INC
Facility address: 479 ATLANTIC AVE
BROOKLYN, NY 11217
EPA ID: NYR000069658
Mailing address: 90TH AVE
HOLLIS, NY 11423
Contact: MOHAMMAD GHUMAN
Contact address: 90TH AVE
HOLLIS, NY 11423
Contact country: US
Contact telephone: (718) 464-4936
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DONNA BROOKS
Owner/operator address: PO BOX 050434
BROOKLYN, NY 11205
Owner/operator country: US
Owner/operator telephone: (718) 622-8866
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DONNA BROOKS
Owner/operator address: PO BOX 050434
BROOKLYN, NY 11205
Owner/operator country: US
Owner/operator telephone: (718) 622-8866
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

THREE STARS CONTRACTING INC (Continued) **1001482944**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	THREE STARS CONTRACTING INC
Classification:	Not a generator, verified
Date form received by agency:	04/02/1999
Site name:	THREE STARS CONTRACTING INC
Classification:	Small Quantity Generator
. Waste code:	D008
. Waste name:	LEAD
Violation Status:	No violations found

FINDS:

Registry ID: 110004552083

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000069658
Country:	USA
Location Address 1:	479 ATLANTIC AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11417
Location Zip Code 4:	Not reported

Mailing Info:

Name:	THREE STARS CONTRACTING
Contact:	MOHAMMAD YOUSG
Address:	197-19 90TH AVE
City/State/Zip:	HOLLIS, NY 11423
Country:	USA
Phone:	718-464-4936

THREE STARS CONTRACTING INC (Continued) **1001482944**

Manifest:

Document ID:	NYB7367472
Manifest Status:	Not reported
Trans1 State ID:	OHTIR4116
Trans2 State ID:	Not reported
Generator Ship Date:	04/02/1999
Trans1 Recv Date:	04/02/1999
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/08/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069658
Trans1 EPA ID:	OH0000000539
Trans2 EPA ID:	Not reported
TSDF ID:	OHD083377010
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00500
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00400
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

AC177 **HUB THE** **RCRA-LQG** **1016455676**
WNW **333 SCHERMERHORN ST** **FINDS** **NYR000207811**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.198 mi.
1048 ft. **Site 1 of 8 in cluster AC**

Relative:
Lower

Actual:
40 ft.

RCRA-LQG:

Date form received by agency:	12/09/2014
Facility name:	HUB THE
Facility address:	333 SCHERMERHORN ST BROOKLYN, NY 11217
EPA ID:	NYR000207811
Mailing address:	SCHERMERHORN ST BROOKLYN, NY 11217
Contact:	ANDREW C LOCKWOOD
Contact address:	JOHNSON AVE SUITE 7 BOHEMIA, NY 11716
Contact country:	US
Contact telephone:	(631) 589-6353
Contact email:	ANDYL@PWGROSSER.COM
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any

HUB THE (Continued) **1016455676**

residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	HUB ASSOCIATES LLC
Owner/operator address:	WASHINGTON AVE BROOKLYN, NY 11205
Owner/operator country:	US
Owner/operator telephone:	(718) 858-1600
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	08/01/2012
Owner/Op end date:	Not reported

Owner/operator name:	HUB ASSOCIATES LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	10/30/2011
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/03/2014
Site name:	HUB THE
Classification:	Large Quantity Generator

. Waste code:	D008
. Waste name:	LEAD

HUB THE (Continued) **1016455676**

Violation Status: No violations found

FINDS:

Registry ID: 110058880046

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000207811
Country:	USA
Location Address 1:	333 SCHERMERHORN ST
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	HUB THE
Contact:	HUB ASSOCIATES
Address:	15 WASHINGTON AVE
Address 2:	BROOKLYN NAVY YARD
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	718-858-1600

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000029967
Trans2 State ID:	Not reported
Generator Ship Date:	03/26/2014
Trans1 Recv Date:	03/26/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/26/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	51900
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1

HUB THE (Continued) **1016455676**

Year:	2014
Manifest Tracking Num:	012352722JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	05/02/2014
Trans1 Recv Date:	05/02/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/02/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	26500
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654908JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000029967
Trans2 State ID:	Not reported
Generator Ship Date:	03/26/2014
Trans1 Recv Date:	03/26/2014

HUB THE (Continued) **1016455676**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/26/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	61080
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012352724JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJR000029967
Trans2 State ID:	Not reported
Generator Ship Date:	03/27/2014
Trans1 Recv Date:	03/27/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	40000
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012352775JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

HUB THE (Continued) **1016455676**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD071629976
Trans2 State ID:	Not reported
Generator Ship Date:	03/27/2014
Trans1 Recv Date:	03/27/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	42000
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012352776JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported

HUB THE (Continued) **1016455676**

Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	51780
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654889JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	56560
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654890JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

HUB THE (Continued) **1016455676**

Mgmt Method Type Code: H110

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: PAD146714878
Trans2 State ID: Not reported
Generator Ship Date: 04/21/2014
Trans1 Recv Date: 04/21/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/21/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000207811
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: Not reported
Quantity: 43200
Units: P - Pounds
Number of Containers: 1
Container Type: DT - Dump trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1
Year: 2014
Manifest Tracking Num: 010654891JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H110

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: PAD146714878
Trans2 State ID: Not reported
Generator Ship Date: 04/21/2014
Trans1 Recv Date: 04/21/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/21/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000207811
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: PAD085690592
Waste Code: Not reported
Quantity: 47760
Units: P - Pounds
Number of Containers: 1

HUB THE (Continued) **1016455676**

Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654892JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	47400
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654893JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878

HUB THE (Continued) **1016455676**

Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	47320
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654894JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	48480
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654895JJK
Import Ind:	N

HUB THE (Continued) **1016455676**

Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	76280
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654896JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported

HUB THE (Continued) **1016455676**

Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	48420
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654897JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/21/2014
Trans1 Recv Date:	04/21/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	45880
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654898JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

HUB THE (Continued) **1016455676**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2014
Trans1 Recv Date:	04/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	45740
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654899JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2014
Trans1 Recv Date:	04/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported

HUB THE (Continued) **1016455676**

Quantity:	45460
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654900JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD145714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2014
Trans1 Recv Date:	04/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	22
Units:	T - Tons
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654901JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

HUB THE (Continued) **1016455676**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2014
Trans1 Recv Date:	04/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	47300
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	010654902JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	PAD146714878
Trans2 State ID:	Not reported
Generator Ship Date:	04/22/2014
Trans1 Recv Date:	04/22/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/22/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000207811
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	PAD085690592
Waste Code:	Not reported
Quantity:	46960
Units:	P - Pounds
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1

HUB THE (Continued) **1016455676**

Year:	2014
Manifest Tracking Num:	010654903JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AA178 **101 LAFAYETTE AV PLAZA CORP** **NY AST** **U003128094**
ENE **101 LAFAYETTE AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.199 mi.
1052 ft. **Site 3 of 6 in cluster AA**

Relative:
Higher

Actual:
62 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-373745
Program Type:	PBS
UTM X:	586715.46906999999
UTM Y:	4504529.5754800001
Expiration Date:	10/23/2017
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	18777
Affiliation Type:	Facility Owner
Company Name:	101 LAFAYETTE PLAZA CORP.
Contact Type:	MANAGING DIRECTOR
Contact Name:	ANTHONY COLELLA
Address1:	% 250 PARK AVE SOUTH 4TH FLR
Address2:	Not reported
City:	NEW YORK
State:	NY
Zip Code:	10003
Country Code:	001
Phone:	(212) 557-3600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	11/15/2012

Site Id:	18777
Affiliation Type:	Mail Contact
Company Name:	TUDOR REALTY SERVICE CORP
Contact Type:	Not reported
Contact Name:	ANTHONY COLELLA
Address1:	250 PARK AVE SOUTH
Address2:	4TH FLOOR
City:	NEW YORK
State:	NY

101 LAFAYETTE AV PLAZA CORP (Continued) **U003128094**

Zip Code:	10003
Country Code:	001
Phone:	(212) 557-3600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/15/2009

Site Id:	18777
Affiliation Type:	On-Site Operator
Company Name:	101 LAFAYETTE AV PLAZA CORP
Contact Type:	Not reported
Contact Name:	RUBIN RODRIGUEZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 596-0708
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	9/15/2009

Site Id:	18777
Affiliation Type:	Emergency Contact
Company Name:	101 LAFAYETTE PLAZA CORP
Contact Type:	Not reported
Contact Name:	JANICE K-MCDOWALL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(212) 557-3600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	9/15/2008

Tank Info:

Tank Number:	001
Tank Id:	26037
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
K99 - Spill Prevention - Other
B01 - Tank External Protection - Painted/Asphalt Coating

101 LAFAYETTE AV PLAZA CORP (Continued) **U003128094**

F00 - Pipe External Protection - None
H02 - Tank Leak Detection - Interstitial - Manual Monitoring
L00 - Piping Leak Detection - None
C01 - Pipe Location - Aboveground
E00 - Piping Secondary Containment - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/01/1951
Capacity Gallons:	5000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	09/15/2009
Material Name:	#2 Fuel Oil (On-Site Consumption)

Y179 **A & R CLEANERS** **RCRA NonGen / NLR** **1000129063**
WSW **74-15 3RD AVE** **NY MANIFEST** **NYD982535296**
1/8-1/4 **BROOKLYN, NY 11209**
0.202 mi.
1066 ft. **Site 2 of 5 in cluster Y**

Relative:
Lower

Actual:
30 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	A & R CLEANERS
Facility address:	74-15 3RD AVE BROOKLYN, NY 11209
EPA ID:	NYD982535296
Mailing address:	3RD AVE BROOKLYN, NY 11209
Contact:	Not reported
Contact address:	3RD AVE BROOKLYN, NY 11209
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	V & T CLEANERES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	V & T CLEANERES

A & R CLEANERS (Continued) **1000129063**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: A & R CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/14/1999
Site name: A & R CLEANERS
Classification: Small Quantity Generator

Date form received by agency: 04/04/1988
Site name: A & R CLEANERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

A & R CLEANERS (Continued) **1000129063**

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 04/24/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

NY MANIFEST:
EPA ID: NYD982535296
Country: USA
Location Address 1: 74 15 3RD AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11209
Location Zip Code 4: Not reported

Mailing Info:
Name: A & R CLNRS
Contact: A & R CLNRS
Address: 74 15 3RD AVENUE
City/State/Zip: BROOKLYN, NY 11209 2409
Country: USA
Phone: 718-748-0105

Manifest:

Document ID: NYC6672554
Manifest Status: Not reported
Trans1 State ID: NJXAB6384
Trans2 State ID: 03217
Generator Ship Date: 03/06/2002
Trans1 Recv Date: 03/06/2002
Trans2 Recv Date: 03/08/2002
TSD Site Recv Date: 03/13/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD982535296
Trans1 EPA ID: SCR000075150
Trans2 EPA ID: NJD071629976
TSDF ID: OHD980587364
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00140
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2002

Document ID: NYA9209441
Manifest Status: Completed copy
Trans1 State ID: LP3931
Trans2 State ID: Not reported

A & R CLEANERS (Continued) **1000129063**

Generator Ship Date:	12/20/1988
Trans1 Recv Date:	12/20/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/20/1988
Part A Recv Date:	12/23/1988
Part B Recv Date:	12/27/1988
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYC4165997
Manifest Status:	Completed copy
Trans1 State ID:	NYJE4550
Trans2 State ID:	5105BGOK
Generator Ship Date:	07/03/1996
Trans1 Recv Date:	07/03/1996
Trans2 Recv Date:	07/08/1996
TSD Site Recv Date:	07/09/1996
Part A Recv Date:	07/15/1996
Part B Recv Date:	07/26/1996
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYS2580221
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	12/21/1993
Trans1 Recv Date:	12/21/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/21/1993
Part A Recv Date:	/ /
Part B Recv Date:	03/25/1994
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported

A & R CLEANERS (Continued) **1000129063**

TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYA9365804
Manifest Status:	Completed copy
Trans1 State ID:	AY9381(NY
Trans2 State ID:	Not reported
Generator Ship Date:	03/17/1989
Trans1 Recv Date:	03/17/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/17/1989
Part A Recv Date:	03/21/1989
Part B Recv Date:	03/27/1989
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9065586
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	10/06/1988
Trans1 Recv Date:	10/06/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/06/1988
Part A Recv Date:	10/17/1988
Part B Recv Date:	10/12/1988
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

A & R CLEANERS (Continued) **1000129063**

Document ID:	NYA9037776
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	09/06/1988
Trans1 Recv Date:	09/06/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/06/1988
Part A Recv Date:	09/14/1988
Part B Recv Date:	09/14/1988
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9157757
Manifest Status:	Completed copy
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	11/29/1988
Trans1 Recv Date:	11/29/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/29/1988
Part A Recv Date:	12/01/1988
Part B Recv Date:	12/06/1988
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9412907
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	04/11/1989
Trans1 Recv Date:	04/11/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/11/1989
Part A Recv Date:	05/25/1989

A & R CLEANERS (Continued) **1000129063**

Part B Recv Date:	04/19/1989
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9113681
Manifest Status:	Completed copy
Trans1 State ID:	LP3931
Trans2 State ID:	Not reported
Generator Ship Date:	11/01/1988
Trans1 Recv Date:	11/01/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/01/1988
Part A Recv Date:	11/09/1988
Part B Recv Date:	11/09/1988
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYC2660310
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	11/02/1993
Trans1 Recv Date:	11/02/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/02/1993
Part A Recv Date:	11/29/1993
Part B Recv Date:	11/15/1993
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001

A & R CLEANERS (Continued) **1000129063**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2434588
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	07/14/1993
Trans1 Recv Date:	07/14/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/14/1993
Part A Recv Date:	07/21/1993
Part B Recv Date:	07/23/1993
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC0628424
Manifest Status:	Completed copy
Trans1 State ID:	AP4503NY
Trans2 State ID:	Not reported
Generator Ship Date:	12/19/1990
Trans1 Recv Date:	12/19/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/19/1990
Part A Recv Date:	01/03/1991
Part B Recv Date:	01/09/1991
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYA9503515
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY

A & R CLEANERS (Continued) **1000129063**

Trans2 State ID:	Not reported
Generator Ship Date:	06/06/1989
Trans1 Recv Date:	06/06/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/06/1989
Part A Recv Date:	06/12/1989
Part B Recv Date:	06/19/1989
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYC0556391
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	EU1732NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/26/1990
Trans1 Recv Date:	10/26/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/26/1990
Part A Recv Date:	01/11/1991
Part B Recv Date:	11/09/1990
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYC0351786
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	07/02/1990
Trans1 Recv Date:	07/02/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/02/1990
Part A Recv Date:	08/06/1990
Part B Recv Date:	07/16/1990
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408

A & R CLEANERS (Continued) **1000129063**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYC1879841
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/07/1992
Trans1 Recv Date:	10/07/1992
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/07/1992
Part A Recv Date:	10/23/1992
Part B Recv Date:	10/23/1992
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1992

Document ID:	NYA9249895
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYLP3931
Trans2 State ID:	Not reported
Generator Ship Date:	01/17/1989
Trans1 Recv Date:	01/17/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/17/1989
Part A Recv Date:	03/06/1989
Part B Recv Date:	01/26/1989
Generator EPA ID:	NYD982535296
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100

A & R CLEANERS (Continued) **1000129063**

Year: 1989

Document ID: NYA9560316
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 07/05/1989
Trans1 Recv Date: 07/05/1989
Trans2 Recv Date: / /
TSD Site Recv Date: 07/05/1989
Part A Recv Date: 07/12/1989
Part B Recv Date: 07/13/1989
Generator EPA ID: NYD982535296
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1989

Document ID: NYA9456682
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: AY9381NY
Trans2 State ID: Not reported
Generator Ship Date: 05/09/1989
Trans1 Recv Date: 05/09/1989
Trans2 Recv Date: / /
TSD Site Recv Date: 05/09/1989
Part A Recv Date: 06/16/1989
Part B Recv Date: 05/17/1989
Generator EPA ID: NYD982535296
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1989

Y180 WSW 1/8-1/4 0.208 mi. 1096 ft. | **BHS REALTY**
485 PACIFIC STREET
BROOKLYN, NY 11217

Site 3 of 5 in cluster Y

NY AST | **U003396403**
NY HIST AST | **N/A**

Relative: Lower

Actual: 33 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-602005
Program Type:	PBS
UTM X:	586061.68795000005
UTM Y:	4504253.1354799997
Expiration Date:	10/28/2004
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	23964
Affiliation Type:	Facility Owner
Company Name:	BHS REALTY
Contact Type:	PRESIDENT
Contact Name:	MIKE BLUTH
Address1:	4309 13TH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11219
Country Code:	001
Phone:	(718) 851-4829
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/9/2006

Site Id:	23964
Affiliation Type:	Mail Contact
Company Name:	BHS REALTY
Contact Type:	PRESIDENT
Contact Name:	MIKE BLUTH
Address1:	4309 13TH AVENUE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11219
Country Code:	001
Phone:	(718) 851-4829
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/9/2006

Site Id:	23964
Affiliation Type:	On-Site Operator
Company Name:	BHS REALTY
Contact Type:	Not reported
Contact Name:	LUIS GARCIA
Address1:	Not reported
Address2:	Not reported
City:	Not reported

BHS REALTY (Continued) **U003396403**

State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 526-0490
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/9/2006

Site Id:	23964
Affiliation Type:	Emergency Contact
Company Name:	BHS REALTY
Contact Type:	Not reported
Contact Name:	MIKE BLUTH
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 851-4829
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	5/9/2006

Tank Info:

Tank Number:	001
Tank Id:	48712
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	Not reported
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	12/01/2001

BHS REALTY (Continued) **U003396403**

Register:	True
Modified By:	NRLOMBAR
Last Modified:	05/18/2006
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-602005
SWIS Code:	6101
Operator:	MIGUEL RODRIGUEZ
Facility Phone:	(718) 875-7947
Facility Addr2:	Not reported
Facility Type:	APARTMENT BUILDING
Emergency:	MIKE BLUTH
Emergency Tel:	(718) 851-4829
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	BHS REALTY CORPORATION
Owner Address:	4309 13TH AVENUE
Owner City,St,Zip:	BROOKLYN, NY 11219
Federal ID:	Not reported
Owner Tel:	(718) 851-4829
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Contact:	MIKE BLUTH
Mailing Name:	BHS REALTY CORPORATION
Mailing Address:	4309 13TH AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11219
Mailing Telephone:	(718) 851-4829
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/30/1999
Expiration:	10/28/2004
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	01
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	2000

BHS REALTY (Continued) **U003396403**

Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	00
Pipe Location:	None
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	None
Leak Detection:	00
Overfill Protection:	04
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

AD181 **BROOKLYN TECHNICAL HIGH SCHOOL** **NY AST** **U003394299**
North **29 FORT GREENE PLACE** **NY HIST AST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.209 mi.
1101 ft. **Site 1 of 3 in cluster AD**

Relative:
Lower

Actual:
41 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-355658
Program Type:	PBS
UTM X:	586468.72557999997
UTM Y:	4504706.1740699997
Expiration Date:	06/28/2018
Site Type:	School

Affiliation Records:

Site Id:	17733
Affiliation Type:	Facility Owner
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	44-36 VERNON BOULEVARD
Address2:	Not reported
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/26/2015

Site Id:	17733

BROOKLYN TECHNICAL HIGH SCHOOL (Continued) **U003394299**

Affiliation Type:	Mail Contact
Company Name:	NYC DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	MUNENDRA SHARMA
Address1:	FIELD OPERATIONS-FUEL DIVISION
Address2:	44-36 VERNON BOULEVARD
City:	LONG ISLAND CITY
State:	NY
Zip Code:	11101
Country Code:	001
Phone:	(718) 349-5752
EMail:	MSHARMA@SCHOOLS.NYC.GOV
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/26/2015

Site Id:	17733
Affiliation Type:	On-Site Operator
Company Name:	BROOKLYN TECHNICAL HS - K430
Contact Type:	Not reported
Contact Name:	HARRY ZIRKEL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 804-6480
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	10/16/2014

Site Id:	17733
Affiliation Type:	Emergency Contact
Company Name:	NEW YORK CITY DEPARTMENT OF EDUCATION
Contact Type:	Not reported
Contact Name:	KEN MAHADEO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(646) 210-7918
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	3/26/2015

Tank Info:

Tank Number:	001
Tank Id:	34707
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

BROOKLYN TECHNICAL HIGH SCHOOL (Continued) **U003394299**

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1933
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/16/2014
Material Name:	#6 Fuel Oil (On-Site Consumption)

Tank Number:	002
Tank Id:	34708
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G02 - Tank Secondary Containment - Vault (w/access)
J02 - Dispenser - Suction Dispenser
H06 - Tank Leak Detection - Impervious Barrier/Concrete Pad (A/G)
L00 - Piping Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
E00 - Piping Secondary Containment - None
F01 - Pipe External Protection - Painted/Asphalt Coating
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	01/01/1933
Capacity Gallons:	20000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported

BROOKLYN TECHNICAL HIGH SCHOOL (Continued) **U003394299**

Date Tank Closed:	Not reported
Register:	True
Modified By:	NRLOMBAR
Last Modified:	10/16/2014
Material Name:	#6 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-355658
SWIS Code:	6101
Operator:	PLANT OPERATION
Facility Phone:	(718) 391-6000
Facility Addr2:	29 FORT GREENE PLACE
Facility Type:	SCHOOL
Emergency:	SCHOOL SAFETY
Emergency Tel:	(212) 979-3300
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CITY OF NEW YORK C/O BOARD OF EDUCATION
Owner Address:	28-11 QUEENS PLAZA NORTH
Owner City,St,Zip:	LONG ISLAND CITY, NY 11101
Federal ID:	Not reported
Owner Tel:	(718) 391-6832
Owner Type:	Local Government
Owner Subtype:	Not reported
Mailing Contact:	FRANK CARDELLO NTROL
Mailing Name:	BOARD OF EDUCATION
Mailing Address:	28-11 QUEENS PLAZA NORTH
Mailing Address 2:	5TH FLOOR
Mailing City,St,Zip:	LONG ISLAND CITY, NY 11101
Mailing Telephone:	(718) 391-6832
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	09/02/1998
Expiration:	06/28/2003
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	40000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported

BROOKLYN TECHNICAL HIGH SCHOOL (Continued) **U003394299**

Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

Tank ID:	002
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	20000
Product Stored:	NOS 5 OR 6 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	Diking
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

AA182 **NYC DEP** **RCRA NonGen / NLR** **1014395523**
ENE **S OXFORD ST & LAFAYETTE AVE** **NY MANIFEST** **NYP003664224**
1/8-1/4 **BROOKLYN, NY 11217**
0.209 mi.
1103 ft. **Site 4 of 6 in cluster AA**

Relative:
Higher

Actual:
66 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/04/2008
Facility name:	NYC DEP
Facility address:	S OXFORD ST & LAFAYETTE AVE BROOKLYN, NY 11217
EPA ID:	NYP003664224
Mailing address:	JUNCTION BLVD FLUSHING, NY 11373
Contact:	JOANNE NURSE
Contact address:	JUNCTION BLVD FLUSHING, NY 11373
Contact country:	US
Contact telephone:	(718) 595-4675
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Lamps
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Pesticides
Accumulated waste on-site:	No
Generated waste on-site:	Not reported
Waste type:	Thermostats
Accumulated waste on-site:	No
Generated waste on-site:	Not reported

NYC DEP (Continued) **1014395523**

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP003664224
Country:	USA
Location Address 1:	SITE @ SOUTH OXFORD & LAFAYETTE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYC DEP
Contact:	NYC DEP
Address:	96-05 HORACE HARDING EXPRESSWAY
City/State/Zip:	CORONA, NY 11368
Country:	USA
Phone:	646-584-7078

NY MANIFEST:

No Manifest Records Available

AE183 **ALLIANCE OF RESIDENT THEATRICS/NEW YORK** **NY LTANKS** **U003740152**
ESE **138 SOUTH OXFORD STREET** **NY UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217** **NY HIST UST**
0.209 mi.
1105 ft. **Site 1 of 2 in cluster AE**

Relative:
Higher

Actual:
69 ft.

LTANKS:

Site ID:	110213
Spill Number/Closed Date:	9909509 / 1/28/2005
Spill Date:	11/4/1999
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RWAUSTIN
Referred To:	Not reported
Reported to Dept:	11/4/1999
CID:	252
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/4/1999
Spill Record Last Update:	1/28/2005
Spiller Name:	UNK
Spiller Company:	VISITING NURSE ASSOC
Spiller Address:	138 SOUTH OXFORD ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	UNK

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Spiller Phone:	(718) 230-6916
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	96625
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "AUSTIN"5/18/04 - AUSTIN - TRANSFERRED FROM TOMASELLO FOR REASSIGNMENT - END1/28/05 - AUSTIN - NO CONTAM. FOUND BY TESTER - CLOSED - END
Remarks:	NO CONTAMINATION WAS DISCOVERED. REPAIRS ON PIPE WORK AND RE-TEST.

Material:

Site ID:	110213
Operable Unit ID:	1088200
Operable Unit:	01
Material ID:	298592
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	110213
Spill Tank Test:	1547815
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

UST:

Id/Status:	2-604393 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	09/08/2005
UTM X:	586789.05110000004
UTM Y:	4504276.3874500003
Site Type:	Other

Affiliation Records:

Site Id:	26267
Affiliation Type:	Facility Owner
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	575 EIGHTH AVENUE, SUITE 17 S
Address2:	Not reported

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

City:	NEW YORK
State:	NY
Zip Code:	10018-3011
Country Code:	001
Phone:	(212) 244-6667
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26267
Affiliation Type:	Mail Contact
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	138 SOUTH OXFORD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26267
Affiliation Type:	On-Site Operator
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26267
Affiliation Type:	Emergency Contact
Company Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Contact Type:	Not reported
Contact Name:	JERRY HOMAN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 398-3078
EMail:	Not reported

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	57567
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	3000
Install Date:	Not reported
Date Tank Closed:	08/14/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
I05 - Overfill - Vent Whistle
J00 - Dispenser - None
C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None

HIST UST:

PBS Number:	2-604393
SPDES Number:	Not reported
Emergency Contact:	JERRY HOMAN
Emergency Telephone:	(718) 636-9624
Operator:	JERRY HOMAN
Operator Telephone:	(718) 398-3078
Owner Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Owner Address:	575 EIGHTH AVENUE, SUITE 17 S
Owner City,St,Zip:	NEW YORK, NY 10018-3011
Owner Telephone:	(212) 244-6667
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Name:	ALLIANCE OF RESIDENT THEATRICS/NEW YORK
Mailing Address:	138 SOUTH OXFORD STREET
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11217
Mailing Contact:	JERRY HOMAN
Mailing Telephone:	(718) 398-3078
Owner Mark:	Second Owner

ALLIANCE OF RESIDENT THEATRICS/NEW YORK (Continued) **U003740152**

Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	09/08/2000
Expiration Date:	09/08/2005
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	Temporarily Out Of Service
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	None
Pipe Location:	Underground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Vent Whistle
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	12/27/1987
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AE184 **EDR US Hist Auto Stat** **1015216281**
ESE **138 S OXFORD ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.209 mi.
1105 ft. **Site 2 of 2 in cluster AE**

Relative:
Higher

Actual:
69 ft.

EDR Historical Auto Stations:

Name:	COLLISION THEORY THEATRE
Year:	2004
Address:	138 S OXFORD ST
Name:	COLLISION THEORY
Year:	2005
Address:	138 S OXFORD ST

V185 **CONSOLIDATED EDISON CO OF NY INC** **RCRA-CESQG** **1001482950**
NW **30 FLATBUSH AVE** **FINDS** **NYR000069682**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.209 mi.
1106 ft. **Site 9 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	CONSOLIDATED EDISON CO OF NY INC
Facility address:	30 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYR000069682
Mailing address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact:	NEIL KUCICH
Contact address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	(718) 802-5092
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	NEVINS ASSOICATES LP
Owner/operator address:	499 PARK AVE & 27TH ST NEW YORK, NY 10022
Owner/operator country:	US
Owner/operator telephone:	(212) 310-9732
Legal status:	Private

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NEVINS ASSOICATES LP
Owner/operator address: 499 PARK AVE & 27TH ST
NEW YORK, NY 10022
Owner/operator country: US
Owner/operator telephone: (212) 310-9732
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: CONSOLIDATED EDISON CO OF NY INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/02/1999
Site name: CONSOLIDATED EDISON CO OF NY INC
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

FINDS:

Registry ID: 110004552118

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000069682
Country:	USA
Location Address 1:	30 FLATBUSH AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLIN MURRAY
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	05/20/2009
Trans1 Recv Date:	05/20/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/21/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	50.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001437172FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD006982359
Trans2 State ID: Not reported
Generator Ship Date: 03/09/2007
Trans1 Recv Date: 03/09/2007
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/12/2007
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000069682
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 25
Units: P - Pounds
Number of Containers: 1
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1
Year: 2007
Manifest Tracking Num: 001450033FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 01/03/2007
Trans1 Recv Date: 01/03/2007
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2007
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000069682
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 42
Units: P - Pounds
Number of Containers: 1

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001020337JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988
Trans2 State ID:	Not reported
Generator Ship Date:	01/03/2007
Trans1 Recv Date:	01/03/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/05/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	55
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001020337JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MAD985286988

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Trans2 State ID:	Not reported
Generator Ship Date:	01/03/2007
Trans1 Recv Date:	01/03/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/05/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	121
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001020337JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	NYG3564369
Manifest Status:	Not reported
Trans1 State ID:	40580PANY
Trans2 State ID:	Not reported
Generator Ship Date:	11/22/2002
Trans1 Recv Date:	11/22/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/25/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	F003 - UNKNOWN
Quantity:	00015
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F003 - UNKNOWN
Quantity:	00008
Units:	G - Gallons (liquids only)* (8.3 pounds)

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00025
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F005 - UNKNOWN
Quantity:	00010
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3494664
Manifest Status:	Not reported
Trans1 State ID:	68235AKNY
Trans2 State ID:	Not reported
Generator Ship Date:	10/02/2002
Trans1 Recv Date:	10/02/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/03/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00100
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00450
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Document ID:	NYG3494655
Manifest Status:	Not reported
Trans1 State ID:	68235AKNY
Trans2 State ID:	Not reported
Generator Ship Date:	10/02/2002
Trans1 Recv Date:	10/02/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/03/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00054
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00005
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00001
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00005
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3564387
Manifest Status:	Not reported
Trans1 State ID:	40580PANY
Trans2 State ID:	Not reported
Generator Ship Date:	11/22/2002
Trans1 Recv Date:	11/22/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/25/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	NYD077444263

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00010
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00001
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	01.00
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00002
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00008
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYG3564378
Manifest Status:	Not reported
Trans1 State ID:	40580PANY
Trans2 State ID:	Not reported
Generator Ship Date:	11/22/2002
Trans1 Recv Date:	11/22/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/25/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	NYD077444263
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	F005 - UNKNOWN
Quantity:	00045
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00018
Units:	G - Gallons (liquids only)* (8.3 pounds)

CONSOLIDATED EDISON CO OF NY INC (Continued) **1001482950**

Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYE1606752
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	11/21/2005
Trans1 Recv Date:	11/21/2005
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/22/2005
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000069682
Trans1 EPA ID:	46630JMNY
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	00010
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	L Landfill.
Specific Gravity:	01.00
Year:	2005

V186
NW
1/8-1/4
0.209 mi.
1106 ft.

CON ED - V 6464 **RCRA NonGen / NLR** **1007205358**
FAIRVIEW PARK DR & **NYP000930032**
GREENBURGH, NY 10523

Site 10 of 11 in cluster V

Relative:
Lower

Actual:
38 ft.

RCRA NonGen / NLR:

Date form received by agency:	02/28/1998
Facility name:	CON ED - V 6464
Facility address:	FAIRVIEW PARK DR & SAW MILL RIVER RD GREENBURGH, NY 105230000
EPA ID:	NYP000930032
Mailing address:	CONSOLIDATED EDISON INC 4 IRVING PL RM 310 NEW YORK, NY 100030000
Contact:	ANTHONY DRUMMINGS
Contact address:	CONSOLIDATED EDISON INC NEW YORK, NY 100030000
Contact country:	US
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

CON ED - V 6464 (Continued) **1007205358**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/27/1998
Site name: CON ED - V 6464
Classification: Not a generator, verified

Date form received by agency: 02/26/1998
Site name: CON ED - V 6464
Classification: Large Quantity Generator

Violation Status: No violations found

V187 **30 FLATBUSH AVE** **NY LTANKS** **S102961935**
NW **30 FLATBUSH AVENUE** **NY TANKS** **N/A**
1/8-1/4 **BROOKLYN, NY 11217** **NY Spills**
0.209 mi.
1106 ft. **Site 11 of 11 in cluster V**

Relative:
Lower

Actual:
38 ft.

LTANKS:
Site ID: 349684
Spill Number/Closed Date: 0504778 / 9/23/2005
Spill Date: 7/20/2005
Spill Cause: Tank Overfill
Spill Source: Passenger Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: SKARAKHA
Referred To: Not reported
Reported to Dept: 7/20/2005
CID: 38
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 7/21/2005
Spill Record Last Update: 9/23/2005
Spiller Name: Not reported
Spiller Company: Not reported

30 FLATBUSH AVE (Continued) **S102961935**

Spiller Address:	40 ELDRIDGE AV
Spiller City,St,Zip:	STATEN ISLAND, NY
Spiller County:	001
Spiller Contact:	ERT DESK'
Spiller Phone:	(212) 580-8383
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	318822
DEC Memo:	e2mis no 159902D. Odonnell found vehicle with plate # MAHANT, Ct plate, was leaking gasoline onto concrete floor of garage in 30 Flatbush Ave. No sewers or waterways affected. Substance is a Third Party Spill. Owner of vehicle stated they had just filled his gas tank and it is possibly due to overfill. Odonnell advised owner of vehicle to move his car from the garage and to have his mechanic look at it. Clean up in progress using oil absorb. Vehicle has been removed from garage.UPDATE.. AUGUST 2, 2006 06:30 HRS.... PER FAC. OS J. KUMP THE CLEAN UP WAS COMPLETED ON JULY 20, 2006 AT 21:30 HRS BY FAC. MGMT EMPLOYEE D. ODONNELL... INC. IS CLOSED .. E.VESCE.Closed. 9-23-05. GB
Remarks:	1 quart of gasoline spilled in parking lot of Con Edison parking lot. Vehicle bearing Connecticut plate MAHANT. Con Edison ref # 159902

Material:

Site ID:	349684
Operable Unit ID:	1107273
Operable Unit:	01
Material ID:	2097167
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

TANKS:

Facility Id:	2-611432
Region:	STATE
DEC Region:	2
Site Status:	Active
Program Type:	PBS
Expiration Date:	07/25/2016
UTM X:	586145.97612000001
UTM Y:	4504636.4902400002

SPILLS:

Facility ID:	0607060
Facility Type:	ER
DER Facility ID:	318822
Site ID:	370515

30 FLATBUSH AVE (Continued) **S102961935**

DEC Region:	2
Spill Date:	9/19/2006
Spill Number/Closed Date:	0607060 / 9/19/2006
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JHOCONNE
Referred To:	Not reported
Reported to Dept:	9/19/2006
CID:	408
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/19/2006
Spill Record Last Update:	9/19/2006
Spiller Name:	ERTS
Spiller Company:	202530
Spiller Address:	3 FLATBUSH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	ERTS
Contact Phone:	(212) 580-8383
DEC Memo:	12/21/06 - See eDocs for Con Ed report detailing cleanup and closure.
Remarks:	Not reported

Material:

Site ID:	370515
Operable Unit ID:	1128320
Operable Unit:	01
Material ID:	2117929
Material Code:	0050A
Material Name:	FREON
Case No.:	Not reported
Material FA:	Other
Quantity:	60
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0706617
Facility Type:	ER
DER Facility ID:	335804
Site ID:	387169
DEC Region:	2
Spill Date:	9/13/2007
Spill Number/Closed Date:	0706617 / 12/28/2007

30 FLATBUSH AVE (Continued) **S102961935**

Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	gdbreen
Referred To:	Not reported
Reported to Dept:	9/13/2007
CID:	406
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/13/2007
Spill Record Last Update:	12/28/2007
Spiller Name:	ERT DESK' MIKE DAUGHTERY
Spiller Company:	CON EDISON
Spiller Address:	30 FLATBUSH AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERT DESK' MIKE DAUGHTERY
Contact Phone:	(212) 580-8383
DEC Memo:	12/28/07 - See eDocs for Con Ed report detailing cleanup and closure.208023. see eDocs
Remarks:	Equip. failure on the compressor. Material was released into the air. No clean up. No to the five questions. ConEd#208023

Material:

Site ID:	387169
Operable Unit ID:	1144383
Operable Unit:	01
Material ID:	2134681
Material Code:	0050A
Material Name:	FREON
Case No.:	Not reported
Material FA:	Other
Quantity:	60
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1005144
Facility Type:	ER
DER Facility ID:	361824
Site ID:	438452
DEC Region:	2
Spill Date:	8/6/2010
Spill Number/Closed Date:	1005144 / 8/6/2010
Spill Cause:	Equipment Failure

30 FLATBUSH AVE (Continued) **S102961935**

Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	8/6/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/6/2010
Spill Record Last Update:	8/6/2010
Spiller Name:	Not reported
Spiller Company:	CON ED
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	ERT
Contact Phone:	(212) 580-8383
DEC Memo:	Freon release - report forwarded to Sam Lieblich in DEC Air Unit
Remarks:	equipment out of svc

Material:

Site ID:	438452
Operable Unit ID:	1189108
Operable Unit:	01
Material ID:	2184056
Material Code:	0050A
Material Name:	FREON
Case No.:	Not reported
Material FA:	Other
Quantity:	82
Units:	Pounds
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0705991
Facility Type:	ER
DER Facility ID:	335826
Site ID:	386419
DEC Region:	2
Spill Date:	8/27/2007
Spill Number/Closed Date:	0705991 / 12/28/2007
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

30 FLATBUSH AVE (Continued) **S102961935**

SWIS:	2401
Investigator:	gdbreen
Referred To:	Not reported
Reported to Dept:	8/27/2007
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/27/2007
Spill Record Last Update:	12/28/2007
Spiller Name:	ERTSDESK
Spiller Company:	CON EDISON
Spiller Address:	30 FLATBUSH AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERTSDESK
Contact Phone:	(212) 580-8383
DEC Memo:	12/28/07 - See eDocs for Con Ed report detailing cleanup and closure.207737 see eDocs
Remarks:	IN AN ELEVATOR, ABOUT 1.5 OUNCES: CLEAN UP PENDING REPAIR. 207737

Material:

Site ID:	386419
Operable Unit ID:	1143659
Operable Unit:	01
Material ID:	2133932
Material Code:	0013
Material Name:	Lube Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0605060
Facility Type:	ER
DER Facility ID:	318822
Site ID:	368164
DEC Region:	2
Spill Date:	8/2/2006
Spill Number/Closed Date:	0605060 / 2/16/2007
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	GDBREEN

30 FLATBUSH AVE (Continued) **S102961935**

Referred To:	Not reported
Reported to Dept:	8/2/2006
CID:	409
Water Affected:	Not reported
Spill Source:	Railroad Car
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	8/2/2006
Spill Record Last Update:	2/16/2007
Spiller Name:	ERT DESK MIKE DAUGHTERY
Spiller Company:	CON EDISON
Spiller Address:	30 FLATBUSH AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	ERT DESK MIKE DAUGHTERY
Contact Phone:	(212) 580-8383
DEC Memo:	02/16/07 - See e-docs for Con Ed report detailing cleanup and closure.201638. see eDocs
Remarks:	CON ED # 201638. HASN'T BEEN CONTAINED YET. NO TO FIVE QUESTIONS.

Material:

Site ID:	368164
Operable Unit ID:	1126054
Operable Unit:	01
Material ID:	2115580
Material Code:	0050A
Material Name:	FREON
Case No.:	Not reported
Material FA:	Other
Quantity:	60
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Click this hyperlink while viewing on your computer to access additional NY_SPILL: detail in the EDR Site Report.

AD188 **30 ST. FELIX STREET** **NY AST** **A100380436**
North **30 ST. FELIX STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.210 mi.
1109 ft. **Site 2 of 3 in cluster AD**

Relative:
Lower

Actual:
36 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Unregulated/Closed
Facility Id:	2-612057
Program Type:	PBS

30 ST. FELIX STREET (Continued) **A100380436**

UTM X: 586368.34482999996
UTM Y: 4504732.3101199996
Expiration Date: 03/24/2008
Site Type: Apartment Building/Office Building

Affiliation Records:

Site Id: 484380
Affiliation Type: Facility Owner
Company Name: FREDERICK P. WIENER
Contact Type: OWNER
Contact Name: FREDERICK P. WIENER
Address1: 321 BEECHMONT DRIVE
Address2: Not reported
City: NEW ROCHELLE
State: NY
Zip Code: 10804
Country Code: 001
Phone: (212) 290-2800
EMail: Not reported
Fax Number: Not reported
Modified By: DMMOLOUG
Date Last Modified: 7/11/2013

Site Id: 484380
Affiliation Type: Mail Contact
Company Name: Not reported
Contact Type: Not reported
Contact Name: FREDERICK WIENER
Address1: 321 BEECHMONT DRIVE
Address2: Not reported
City: NEW ROCHELLE
State: NY
Zip Code: 10804
Country Code: 001
Phone: (212) 290-2800
EMail: FPWIENER@AOL.COM
Fax Number: Not reported
Modified By: DMMOLOUG
Date Last Modified: 7/11/2013

Site Id: 484380
Affiliation Type: On-Site Operator
Company Name: 30 ST. FELIX STREET
Contact Type: Not reported
Contact Name: MICHAEL
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (347) 385-7004
EMail: Not reported
Fax Number: Not reported
Modified By: DMMOLOUG
Date Last Modified: 7/11/2013

Site Id: 484380

30 ST. FELIX STREET (Continued) **A100380436**

Affiliation Type:	Emergency Contact
Company Name:	FREDERICK P. WIENER
Contact Type:	Not reported
Contact Name:	FREDERICK P. WIENER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 270-7053
EMail:	Not reported
Fax Number:	Not reported
Modified By:	DMMOLOUG
Date Last Modified:	7/11/2013

Tank Info:

Tank Number:	001
Tank Id:	249017

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
L00 - Piping Leak Detection - None
B00 - Tank External Protection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	2
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	10/01/1938
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	07/02/2003
Register:	True
Modified By:	DMMOLOUG
Last Modified:	07/11/2013
Material Name:	#6 Fuel Oil (On-Site Consumption)

AF189 **CVS PHARMACY #10086** **RCRA-CESQG** **1016451959**
NW **30 FLATBUSH AVE** **FINDS** **NYR000205542**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.211 mi.
1115 ft. **Site 1 of 10 in cluster AF**

Relative:
Lower

Actual:
37 ft.

RCRA-CESQG:

Date form received by agency:	11/26/2013
Facility name:	CVS PHARMACY #10086
Facility address:	30 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYR000205542
Mailing address:	CVS DR WOONSOCKET, RI 02895
Contact:	WENDY L BRANT
Contact address:	CVS DR WOONSOCKET, RI 02895
Contact country:	US
Contact telephone:	(401) 765-1500
Contact email:	WENDY.BRANT@CVSCAREMARK.COM
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	CVS ALBANY LLC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	11/03/2013
Owner/Op end date:	Not reported

Owner/operator name:	AGNL-CAP VENTURE LLC
Owner/operator address:	PARK AVE 26TH FL NEW YORK, NY 10167
Owner/operator country:	US
Owner/operator telephone:	(212) 883-4410
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/28/2012
Owner/Op end date:	Not reported

CVS PHARMACY #10086 (Continued) **1016451959**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D009
. Waste name: MERCURY

. Waste code: D011
. Waste name: SILVER

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Violation Status: No violations found

FINDS:

Registry ID: 110056380296

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

CVS PHARMACY #10086 (Continued) **1016451959**

corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYR000205542
Country:	USA
Location Address 1:	30 FLATBUSH AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CVS PHARMACY #10086
Contact:	CVS PHARMACY #10086
Address:	30 FLATBUSH AVE
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MNS000110924
Trans2 State ID:	NJD054126164
Generator Ship Date:	05/05/2014
Trans1 Recv Date:	05/05/2014
Trans2 Recv Date:	05/12/2014
TSD Site Recv Date:	05/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000205542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	INR000110197
Waste Code:	Not reported
Quantity:	16
Units:	P - Pounds
Number of Containers:	1
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	007211509FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

CVS PHARMACY #10086 (Continued) **1016451959**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJR000063677
Generator Ship Date:	07/22/2014
Trans1 Recv Date:	07/22/2014
Trans2 Recv Date:	07/29/2014
TSD Site Recv Date:	08/05/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000205542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID040098352
Waste Code:	Not reported
Quantity:	16
Units:	P - Pounds
Number of Containers:	1
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	007224303FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	CTD983872698
Trans2 State ID:	NJR000063677
Generator Ship Date:	10/13/2014
Trans1 Recv Date:	10/13/2014
Trans2 Recv Date:	10/17/2014
TSD Site Recv Date:	11/04/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000205542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	INR000110197
Waste Code:	Not reported
Quantity:	3
Units:	P - Pounds
Number of Containers:	1
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1

CVS PHARMACY #10086 (Continued) **1016451959**

Year:	2014
Manifest Tracking Num:	007224949FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	MNS000110924
Trans2 State ID:	NJD054126164
Generator Ship Date:	05/05/2014
Trans1 Recv Date:	05/05/2014
Trans2 Recv Date:	05/12/2014
TSD Site Recv Date:	05/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYR000205542
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	INR000110197
Waste Code:	Not reported
Quantity:	0.04
Units:	P - Pounds
Number of Containers:	1
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	007211509FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AF190 **CON EDISON** **RCRA NonGen / NLR** **1014398343**
NW **30 FLATBUSH AVE** **NJ MANIFEST** **NYP004206951**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.211 mi.
1115 ft. **Site 2 of 10 in cluster AF**

Relative:
Lower

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/20/2010
Facility name:	CON EDISON
Facility address:	30 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYP004206951
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	DENNIS MICHAELIDES
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 204-4297
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

NJ MANIFEST:

EPA Id:	NYP004206951
Mail Address:	4 IRVING PL, RM 828
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	DENNIS MICHAELIDES
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported

CON EDISON (Continued) **1014398343**

Date Change: Not reported

Manifest:

Manifest Number:	000004973GBF
EPA ID:	NYP004206951
Date Shipped:	05/20/2010
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	NJD003812047
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	05/20/2010
Date Trans2 Transported Waste:	05/21/2010
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	05/21/2010
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2010 New Jersey Manifest Data
Waste Code:	D001
Hand Code:	H061
Quantity:	1045 G

NY MANIFEST:

EPA ID:	NYP004206951
Country:	USA
Location Address 1:	30 30 FLATBUSH AVE
Location Address 2:	Not reported
Location City:	BROOKLYN

CON EDISON (Continued) **1014398343**

Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CONSOLIDATED EDISON
Contact: THOMAS TEELING
Address: 4 IRVING PL RM 828
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-3770

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003182047
Trans2 State ID: Not reported
Generator Ship Date: 05/20/2010
Trans1 Recv Date: 05/20/2010
Trans2 Recv Date: Not reported
TSD Site Recv Date: 05/21/2010
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004206951
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 1045.0
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 19.0
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2010
Manifest Tracking Num: 000004973GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H061

W191 NNW 1/8-1/4 0.211 mi. 1115 ft. | **CON EDISON 42 ROCKWELL PL BROOKLYN, NY** | **NY MANIFEST** | **S117537699 N/A**

Site 4 of 4 in cluster W

Relative: Lower

Actual: 31 ft.

NY MANIFEST:

EPA ID:	NYP004702882
Country:	USA
Location Address 1:	42 ROCKWELL PL
Location Address 2:	MH 03690
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PL 15TH FL
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	12/04/2014
Trans1 Recv Date:	12/04/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/05/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004702882
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	10000
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012773626JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CON EDISON (Continued) **S117537699**

Mgmt Method Type Code: H110

AA192
ENE
1/8-1/4
0.213 mi.
1123 ft.

OXFORD COMMA LLC
73 SOUTH OXFORD STREET
BROOKLYN, NY 11217

NY UST **U004227337**
N/A

Site 5 of 6 in cluster AA

Relative:
Higher

Actual:
66 ft.

UST:

Id/Status:	2-612350 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/15/2019
UTM X:	Not reported
UTM Y:	Not reported
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	503605
Affiliation Type:	Facility Owner
Company Name:	OXFORD COMMA LLC
Contact Type:	MEMBER
Contact Name:	JAE KIM
Address1:	18 PARKHURST PLACE
Address2:	Not reported
City:	MONTCLAIR
State:	NJ
Zip Code:	07042
Country Code:	001
Phone:	(973) 901-2343
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NTFREEMA
Date Last Modified:	1/23/2015

Site Id:	503605
Affiliation Type:	Mail Contact
Company Name:	OXFORD COMMA LLC
Contact Type:	Not reported
Contact Name:	SOONBIN KIM
Address1:	18 PARKHURST PLACE
Address2:	Not reported
City:	MONTCLAIR
State:	NJ
Zip Code:	07042
Country Code:	001
Phone:	(973) 873-8587
EMail:	SOONBINKIM@GMAIL.COM
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/9/2015

Site Id:	503605
Affiliation Type:	On-Site Operator
Company Name:	OXFORD COMMA LLC
Contact Type:	Not reported
Contact Name:	JAE KIM

OXFORD COMMA LLC (Continued) **U004227337**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(973) 901-2343
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/9/2015

Site Id:	503605
Affiliation Type:	Emergency Contact
Company Name:	OXFORD COMMA LLC
Contact Type:	Not reported
Contact Name:	SOONBIN KIM
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(973) 873-8587
EMail:	Not reported
Fax Number:	Not reported
Modified By:	CGFREEDM
Date Last Modified:	1/9/2015

Tank Info:

Tank Number:	001
Tank ID:	254144
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1500
Install Date:	Not reported
Date Tank Closed:	07/18/2014
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NTFREEMA
Last Modified:	01/23/2015

Equipment Records:

F00 - Pipe External Protection - None
L09 - Piping Leak Detection - Exempt Suction Piping
G00 - Tank Secondary Containment - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
A00 - Tank Internal Protection - None
I00 - Overfill - None
J04 - Dispenser - On Site Heating System (Suction)
K00 - Spill Prevention - None

OXFORD COMMA LLC (Continued) **U004227337**

H00 - Tank Leak Detection - None
E00 - Piping Secondary Containment - None
B00 - Tank External Protection - None
C03 - Pipe Location - Aboveground/Underground Combination

AG193 **EDR US Hist Auto Stat** **1015284616**
SSE **185 FLATBUSH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.216 mi.
1142 ft. **Site 1 of 5 in cluster AG**

Relative:
Higher

Actual:
47 ft.

EDR Historical Auto Stations:

Name: G & J SERVICE STATION
Year: 2006
Address: 185 FLATBUSH AVE

Name: G & J SERVICE STATION
Year: 2007
Address: 185 FLATBUSH AVE

Name: G & J SERVICE STATION
Year: 2008
Address: 185 FLATBUSH AVE

Name: G & J SVC STATION
Year: 2010
Address: 185 FLATBUSH AVE

AD194 **CON EDISON SERVICE BOX: 44284** **RCRA NonGen / NLR** **1016962356**
North **23 ST FELIX ST** **NY MANIFEST** **NYP004353603**
1/8-1/4 **BROOKLYN, NY 11217**
0.217 mi.
1144 ft. **Site 3 of 3 in cluster AD**

Relative:
Lower

Actual:
37 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/30/2013
Facility name:	CON EDISON SERVICE BOX: 44284
Facility address:	23 ST FELIX ST BROOKLYN, NY 11217
EPA ID:	NYP004353603
Mailing address:	IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	ROBERTA BELL
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4590
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No

CON EDISON SERVICE BOX: 44284 (Continued) **1016962356**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/30/2013
Site name:	CON EDISON SERVICE BOX: 44284
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004353603
Country:	USA
Location Address 1:	23 SAINT FELIX
Location Address 2:	SB 44284
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15 FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/30/2013
Trans1 Recv Date:	08/30/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/04/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004353603
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	75
Units:	G - Gallons (liquids only)* (8.3 pounds)

CON EDISON SERVICE BOX: 44284 (Continued) **1016962356**

Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002220482GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

Y195 **80 3RD AVE.** **NY LTANKS** **S102671969**
WSW **80 3RD AVE** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.217 mi.
1145 ft. **Site 4 of 5 in cluster Y**

Relative:
Lower

Actual:
29 ft.

LTANKS:

Site ID:	76952
Spill Number/Closed Date:	9208644 / 10/27/1992
Spill Date:	10/27/1992
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	10/27/1992
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	10/27/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/27/1992
Spill Record Last Update:	10/27/1992
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	71861
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was

80 3RD AVE. (Continued) **S102671969**

"MILLER"
Remarks: SPILL INTO BASEMENT & SMALL AMOUNT INTO SANITARY SEWER VIA SUMP PUMP-F.D. APPLYING SORBENT AND SPILLER TO FOLLOW UP ,NYCDEP ALSO RESPONDINGTO-718-595-4646 NYCDEP RESPONDED ON SCENE WILL CALL IF NEEDH
Not reported

Material:
Site ID: 76952
Operable Unit ID: 972186
Operable Unit: 01
Material ID: 405732
Material Code: 0003A
Material Name: #6 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 2000
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

AA196 **67 FORT GREENE PARK, LLC** **NY AST** **A100159782**
ENE **67 SOUTH OXFORD STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.217 mi.
1148 ft. **Site 6 of 6 in cluster AA**

Relative:
Higher

Actual:
65 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-604404
Program Type: PBS
UTM X: 586747.18203999999
UTM Y: 4504568.9316699998
Expiration Date: 12/15/2009
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 26278
Affiliation Type: Mail Contact
Company Name: HPM, INC.
Contact Type: Not reported
Contact Name: ROBERT E. HARMON
Address1: 15 SOUTH OXFORD STREET
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 596-6868
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG

67 FORT GREENE PARK, LLC (Continued) **A100159782**

Date Last Modified:	12/15/2004

Site Id:	26278
Affiliation Type:	On-Site Operator
Company Name:	67 SOUTH OXFORD STREET
Contact Type:	Not reported
Contact Name:	ROBERT HARMON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 596-6868
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26278
Affiliation Type:	Emergency Contact
Company Name:	ROBERT E. HARMON
Contact Type:	Not reported
Contact Name:	ROBERT HARMON
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(917) 880-6658
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	26278
Affiliation Type:	Facility Owner
Company Name:	67 FORT GREENE PARK, LLC
Contact Type:	MANAGING MEMBER
Contact Name:	ROBERT E. HARMON
Address1:	15 SOUTH OXFORD STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 596-6868
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	12/15/2004

Tank Info:

Tank Number:	001
Tank Id:	57643

67 FORT GREENE PARK, LLC (Continued) **A100159782**

Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

I05 - Overfill - Vent Whistle
D10 - Pipe Type - Copper
G01 - Tank Secondary Containment - Diking (Aboveground)
A00 - Tank Internal Protection - None
B99 - Tank External Protection - Other
H00 - Tank Leak Detection - None
C03 - Pipe Location - Aboveground/Underground Combination
F99 - Pipe External Protection - Other

Tank Location: 2
Tank Type: Steel/Carbon Steel/Iron
Tank Status: Closed - Removed
Pipe Model: Not reported
Install Date: Not reported
Capacity Gallons: 1600
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: 10/27/2006
Register: True
Modified By: NRLOMBAR
Last Modified: 10/09/2009
Material Name: #2 Fuel Oil (On-Site Consumption)

Y197 **NYNEX** **NY MANIFEST** **1009234184**
WSW **3RD AVE & DEAN ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.218 mi.
1149 ft. **Site 5 of 5 in cluster Y**

Relative:
Lower

Actual:
29 ft.

NY MANIFEST:
EPA ID: NYP000926550
Country: USA
Location Address 1: 3RD AVE & DEAN ST
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: Not reported
Location Zip Code 4: Not reported

Mailing Info:
Name: NYNEX
Contact: S BISWAS
Address: 221 EAST 37TH STREET
City/State/Zip: NEW YORK, NY 10016
Country: USA
Phone: 212-338-7126

Manifest:

Document ID: MIA4089602
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported

NYNEX (Continued) **1009234184**

Generator Ship Date:	07/24/1996
Trans1 Recv Date:	07/24/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/16/1996
Part A Recv Date:	/ /
Part B Recv Date:	10/09/1996
Generator EPA ID:	NYP000926550
Trans1 EPA ID:	NYD010951986
Trans2 EPA ID:	NYD046765574
TSDF ID:	MID096963194
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

AF198 **10 METROTECH CENTER** **RCRA NonGen / NLR** **1000554944**
NW **625 FULTON ST BLDG C 2ND FL** **FINDS** **NYD986974350**
1/8-1/4 **BROOKLYN, NY 11201**
0.220 mi.
1159 ft. **Site 3 of 10 in cluster AF**

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	10 METROTECH CENTER
Facility address:	625 FULTON ST BLDG C 2ND FL BROOKLYN, NY 112015432
EPA ID:	NYD986974350
Mailing address:	FULTON ST BLDG C 2ND FL BROOKLYN, NY 11201
Contact:	Not reported
Contact address:	FULTON ST BLDG C 2ND FL BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	625 FULTON ASSOC
Owner/operator address:	110 E 59TH ST C-O FOREST CITY NEW YORK, NY 10022
Owner/operator country:	US
Owner/operator telephone:	(212) 319-2100
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	625 FULTON ASSOC
Owner/operator address:	110 E 59TH ST C-O FOREST CITY NEW YORK, NY 10022

10 METROTECH CENTER (Continued) **1000554944**

Owner/operator country: US
Owner/operator telephone: (212) 319-2100
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: 10 METROTECH CENTER
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: 10 METROTECH CENTER
Classification: Not a generator, verified

Date form received by agency: 10/24/1991
Site name: 10 METROTECH CENTER
Classification: Large Quantity Generator

. Waste code: NONE
. Waste name: None

Violation Status: No violations found

FINDS:

Registry ID: 110004477824

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AF199 **CON EDISON** **NY MANIFEST** **S117065239**
NW **FO 548 FULTON ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.220 mi.
1160 ft. **Site 4 of 10 in cluster AF**

Relative:
Lower

Actual:
34 ft.

NY MANIFEST:

EPA ID:	NYP004577797
Country:	USA
Location Address 1:	FO 548 FULTON ST
Location Address 2:	TM 1047
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	06/26/2014
Trans1 Recv Date:	06/26/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004577797
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	250
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	013254844JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

CON EDISON (Continued) **S117065239**

Mgmt Method Type Code: H110

AH200 SSW 1/8-1/4 0.220 mi. 1164 ft. **CRISTALLO CLEANERS 64 FOURTH AVE BROOKLYN, NY 11217** **RCRA NonGen / NLR NY MANIFEST US AIRS** **1000387609 NYD981137938**

Site 1 of 9 in cluster AH

Relative: Lower

Actual: 32 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	CRISTALLO CLEANERS
Facility address:	64 FOURTH AVE BROOKLYN, NY 11217
EPA ID:	NYD981137938
Mailing address:	FOURTH AVE BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	FOURTH AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No

CRISTALLO CLEANERS (Continued) **1000387609**

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: CRISTALLO CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 06/21/2003
Site name: CRISTALLO CLEANERS
Classification: Not a generator, verified

Date form received by agency: 07/14/1999
Site name: CRISTALLO CLEANERS
Classification: Small Quantity Generator

Date form received by agency: 10/01/1985
Site name: CRISTALLO CLEANERS
Classification: Large Quantity Generator

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD981137938
Country: USA
Location Address 1: 64 4TH AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CRISTALLO CLNRS
Contact: CRISTALLO DOMINICK
Address: 64 4TH AVENUE
City/State/Zip: BROOKLYN, NY 11217
Country: USA
Phone: 718-855-6994

Manifest:

CRISTALLO CLEANERS (Continued) **1000387609**

Document ID:	NYC6664465
Manifest Status:	Not reported
Trans1 State ID:	NJXAB6132
Trans2 State ID:	NJT51G9T
Generator Ship Date:	03/01/2002
Trans1 Recv Date:	03/01/2002
Trans2 Recv Date:	03/08/2002
TSD Site Recv Date:	03/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC4396926
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYGF2859
Trans2 State ID:	40355
Generator Ship Date:	12/09/1996
Trans1 Recv Date:	12/09/1996
Trans2 Recv Date:	12/16/1996
TSD Site Recv Date:	12/19/1996
Part A Recv Date:	01/13/1997
Part B Recv Date:	01/06/1997
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	MOD095038998
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4153443
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	06/21/1996
Trans1 Recv Date:	06/21/1996
Trans2 Recv Date:	06/25/1996
TSD Site Recv Date:	06/26/1996
Part A Recv Date:	07/15/1996

CRISTALLO CLEANERS (Continued) **1000387609**

Part B Recv Date:	07/17/1996
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4106182
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JE4550
Trans2 State ID:	Not reported
Generator Ship Date:	05/29/1996
Trans1 Recv Date:	05/29/1996
Trans2 Recv Date:	05/31/1996
TSD Site Recv Date:	06/01/1996
Part A Recv Date:	06/27/1996
Part B Recv Date:	06/24/1996
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2403797
Manifest Status:	Completed copy
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	07/01/1993
Trans1 Recv Date:	07/01/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/01/1993
Part A Recv Date:	07/23/1993
Part B Recv Date:	07/13/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00160
Units:	P - Pounds
Number of Containers:	003

CRISTALLO CLEANERS (Continued) **1000387609**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2504057
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	08/27/1993
Trans1 Recv Date:	08/27/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/27/1993
Part A Recv Date:	10/19/1993
Part B Recv Date:	09/24/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00420
Units:	P - Pounds
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2633848
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/22/1993
Trans1 Recv Date:	10/22/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/22/1993
Part A Recv Date:	11/18/1993
Part B Recv Date:	11/04/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00210
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.

CRISTALLO CLEANERS (Continued) **1000387609**

Specific Gravity: 100
Year: 1993

Document ID: NYS2583011
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: AY9381NY
Trans2 State ID: Not reported
Generator Ship Date: 12/14/1993
Trans1 Recv Date: 12/14/1993
Trans2 Recv Date: / /
TSD Site Recv Date: 12/14/1993
Part A Recv Date: / /
Part B Recv Date: 03/29/1994
Generator EPA ID: NYD981137938
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00320
Units: P - Pounds
Number of Containers: 016
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1993

Document ID: NYC2337412
Manifest Status: Completed copy
Trans1 State ID: HW8207NY
Trans2 State ID: Not reported
Generator Ship Date: 06/03/1993
Trans1 Recv Date: 06/03/1993
Trans2 Recv Date: / /
TSD Site Recv Date: 06/03/1993
Part A Recv Date: 06/21/1993
Part B Recv Date: 06/14/1993
Generator EPA ID: NYD981137938
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1993

Document ID: NYC2284637
Manifest Status: Completed copy
Trans1 State ID: AW8209NY
Trans2 State ID: Not reported
Generator Ship Date: 05/05/1993

CRISTALLO CLEANERS (Continued) **1000387609**

Trans1 Recv Date:	05/05/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/05/1993
Part A Recv Date:	05/25/1993
Part B Recv Date:	05/13/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC6878564
Manifest Status:	Not reported
Trans1 State ID:	NYGF1411
Trans2 State ID:	NJ044
Generator Ship Date:	10/11/2002
Trans1 Recv Date:	10/11/2002
Trans2 Recv Date:	10/17/2002
TSD Site Recv Date:	10/18/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC6642325
Manifest Status:	Not reported
Trans1 State ID:	NJXAB6363
Trans2 State ID:	Not reported
Generator Ship Date:	01/02/2002
Trans1 Recv Date:	01/02/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	01/11/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364

CRISTALLO CLEANERS (Continued) **1000387609**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00190
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC5618913
Manifest Status:	Not reported
Trans1 State ID:	NYLP3931
Trans2 State ID:	T748NY
Generator Ship Date:	04/27/1999
Trans1 Recv Date:	04/27/1999
Trans2 Recv Date:	04/29/1999
TSD Site Recv Date:	05/05/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00180
Units:	P - Pounds
Number of Containers:	003
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

Document ID:	NYC5529058
Manifest Status:	Not reported
Trans1 State ID:	NYLP3931
Trans2 State ID:	564TUHNJ
Generator Ship Date:	02/04/1999
Trans1 Recv Date:	02/04/1999
Trans2 Recv Date:	02/10/1999
TSD Site Recv Date:	02/16/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195

CRISTALLO CLEANERS (Continued) **1000387609**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

Document ID:	NYC3991893
Manifest Status:	Completed copy
Trans1 State ID:	GF2859NY
Trans2 State ID:	AR004
Generator Ship Date:	02/07/1996
Trans1 Recv Date:	02/07/1996
Trans2 Recv Date:	02/09/1996
TSD Site Recv Date:	02/10/1996
Part A Recv Date:	03/13/1996
Part B Recv Date:	02/29/1996
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4074783
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AM6252NY
Trans2 State ID:	PC1319H72
Generator Ship Date:	05/01/1996
Trans1 Recv Date:	05/01/1996
Trans2 Recv Date:	05/03/1996
TSD Site Recv Date:	05/04/1996
Part A Recv Date:	05/30/1996
Part B Recv Date:	05/30/1996
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ARD981908551
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4269183

CRISTALLO CLEANERS (Continued) **1000387609**

Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYGF2859
Trans2 State ID:	4392AZ
Generator Ship Date:	09/18/1996
Trans1 Recv Date:	09/18/1996
Trans2 Recv Date:	09/20/1996
TSD Site Recv Date:	09/23/1996
Part A Recv Date:	10/29/1996
Part B Recv Date:	10/18/1996
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00180
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2462218
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	08/03/1993
Trans1 Recv Date:	08/03/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/03/1993
Part A Recv Date:	08/17/1993
Part B Recv Date:	08/12/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2102578
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY

CRISTALLO CLEANERS (Continued) **1000387609**

Trans2 State ID:	Not reported
Generator Ship Date:	01/13/1993
Trans1 Recv Date:	01/13/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/13/1993
Part A Recv Date:	02/10/1993
Part B Recv Date:	01/22/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00300
Units:	P - Pounds
Number of Containers:	010
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2123763
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	02/09/1993
Trans1 Recv Date:	02/09/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/09/1993
Part A Recv Date:	02/25/1993
Part B Recv Date:	02/19/1993
Generator EPA ID:	NYD981137938
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00180
Units:	P - Pounds
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110001615672
Plant name:	CRISTALLO DRY CLEANERS
Plant address:	64 FOURTH AVE BROOKLYN, NY 112171981
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216

CRISTALLO CLEANERS (Continued) **1000387609**

Sic code desc: DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf: 812320
NAIC code description: Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Compliance and Enforcement Major Issues:

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

CRISTALLO CLEANERS (Continued) **1000387609**

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

CRISTALLO CLEANERS (Continued) **1000387609**

Hist compliance date: 1304
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: UNCLASSIFIED
Repeat violator date: Not reported
Turnover compliance: Not reported

AH201
SSW
1/8-1/4
0.220 mi.
1164 ft.

CRISTALLO DRY CLEANERS
64 FOURTH AVE.
BROOKLYN, NY 11217

NY DRYCLEANERS **S110246317**
N/A

Site 2 of 9 in cluster AH

Relative:
Lower

Actual:
32 ft.

DRYCLEANERS:

Facility ID:	2-6103-00202
Phone Number:	718-855-6994
Region:	Not reported
Registration Effective Date:	N/A
Inspection Date:	03JUL1
Install Date:	90/03
Drop Shop:	Y
Shutdown:	Not reported
Alternate Solvent:	Not reported
Current Business:	Not reported

AH202
SSW
1/8-1/4
0.220 mi.
1164 ft.

64 4TH AVE
BROOKLYN, NY 11217

EDR US Hist Cleaners **1015083812**
N/A

Site 3 of 9 in cluster AH

Relative:
Lower

Actual:
32 ft.

EDR Historical Cleaners:

Name:	CRISTALLO CLEANERS
Year:	2001
Address:	64 4TH AVE
Name:	CRISTALLO CLEANERS
Year:	2002
Address:	64 4TH AVE
Name:	CRISTALLO CLEANERS
Year:	2008
Address:	64 4TH AVE
Name:	CRISTALLO CLEANERS
Year:	2011
Address:	64 4TH AVE

AC203
WNW
1/8-1/4
0.222 mi.
1170 ft.

NEVINS ASSOCIATES, LLC
45 NEVINS STREET
BROOKLYN, NY 11217

NY UST **U003312892**
N/A

Site 2 of 8 in cluster AC

Relative:
Lower

Actual:
40 ft.

UST:

Id/Status:	2-603510 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	06/04/2003
UTM X:	586053.72699
UTM Y:	4504526.2314900002
Site Type:	Other

Affiliation Records:

Site Id:	25426

NEVINS ASSOCIATES, LLC (Continued) **U003312892**

Affiliation Type:	Facility Owner
Company Name:	NEVINS ASSOCIATES LLC C/O ARTHUR ANDERMAN
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	108-18 QUEENS BLVD.
Address2:	Not reported
City:	FOREST HILLS
State:	NY
Zip Code:	11375
Country Code:	001
Phone:	(718) 268-4000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25426
Affiliation Type:	Mail Contact
Company Name:	NEVINS ASSOCIATES LLC C/O ARTHUR A. ANDERMAN
Contact Type:	Not reported
Contact Name:	H.K. MOOR
Address1:	108-18 QUEENS BLVD.
Address2:	Not reported
City:	FOREST HILLS,
State:	NY
Zip Code:	11375
Country Code:	001
Phone:	(718) 268-4000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25426
Affiliation Type:	On-Site Operator
Company Name:	NEVINS ASSOCIATES, LLC
Contact Type:	Not reported
Contact Name:	LE ROY PRUDENCHGE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 237-8107
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	25426
Affiliation Type:	Emergency Contact
Company Name:	NEVINS ASSOCIATES LLC C/O ARTHUR ANDERMAN
Contact Type:	Not reported
Contact Name:	ARTHUR A. ANDERMAN
Address1:	Not reported
Address2:	Not reported

NEVINS ASSOCIATES, LLC (Continued) **U003312892**

City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 268-4000
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	54599
Tank Status:	Closed - In Place
Material Name:	Closed - In Place
Capacity Gallons:	2500
Install Date:	12/01/1977
Date Tank Closed:	11/26/2001
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	11/20/2001
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None

AC204 **CON EDISON SERVICE BOX: 30847** **RCRA NonGen / NLR** **1016973969**
WNW **53 NEVINS ST** **NY MANIFEST** **NYP004477774**
1/8-1/4 **BROOKLYN, NY 11217**
0.223 mi.
1179 ft. **Site 3 of 8 in cluster AC**

Relative:
Lower

Actual:
40 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/25/2014
Facility name:	CON EDISON SERVICE BOX: 30847
Facility address:	53 NEVINS ST BROOKLYN, NY 11217
EPA ID:	NYP004477774
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING

CON EDISON SERVICE BOX: 30847 (Continued) **1016973969**

Contact address:	Not reported
	Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/25/2014
Site name:	CON EDISON SERVICE BOX: 30847
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004477774
Country:	USA
Location Address 1:	53 NEVINS ST
Location Address 2:	SB30847
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING ST
Address 2:	15TH ST
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193

CON EDISON SERVICE BOX: 30847 (Continued) **1016973969**

Trans2 State ID:	Not reported
Generator Ship Date:	03/25/2014
Trans1 Recv Date:	03/25/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/27/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004477774
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	1500
Units:	P - Pounds
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012354421JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AF205 **CON EDISON MANHOLE 1910** **RCRA NonGen / NLR** **1010327404**
NW **HUDSON AVE & FULTON ST** **NY MANIFEST** **NYP004146494**
1/8-1/4 **BROOKLYN, NY 11217**
0.223 mi.
1180 ft. **Site 5 of 10 in cluster AF**

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/11/2007
Facility name:	CON EDISON MANHOLE 1910
Facility address:	HUDSON AVE & FULTON ST BROOKLYN, NY 11217
EPA ID:	NYP004146494
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	MICHAEL D'AGOSTINO
Contact address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact country:	US
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

CON EDISON MANHOLE 1910 (Continued) **1010327404**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/10/2007
Site name:	CON EDISON
Classification:	Not a generator, verified
Date form received by agency:	01/09/2007
Site name:	CON EDISON
Classification:	Unverified
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004146494
Country:	USA
Location Address 1:	E/S HUDSON AVE
Location Address 2:	MH 1910
Location City:	NEW YORK
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONED
Contact:	CONED
Address:	31-01 20TH AVE
City/State/Zip:	LONG ISLAND CITY, NY 11105
Country:	USA
Phone:	718-204-4090

NY MANIFEST:

No Manifest Records Available

AC206 WNW 1/8-1/4 0.224 mi. 1181 ft. | **CON EDISON SERVICE BOX: 30847**
50 NEVINS ST FRONT OF
BROOKLYN, NY 11217 | **RCRA NonGen / NLR**
NY MANIFEST | **1016967189**
NYP004408118

Site 4 of 8 in cluster AC

Relative: Lower

Actual: 40 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/18/2014
Facility name:	CON EDISON SERVICE BOX: 30847
Facility address:	50 NEVINS ST FRONT OF BROOKLYN, NY 11217
EPA ID:	NYP004408118
Mailing address:	IRVING PL, 15TH FL NE NEW YORK, NY 10003
Contact:	THOMAS TEELING
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 460-3770
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	12/18/2013
Site name:	CON EDISON SERVICE BOX: 30847
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

NY MANIFEST:

EPA ID:	NYP004408118
Country:	USA
Location Address 1:	OPP 50 NEVINS ST
Location Address 2:	SB30847
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

CON EDISON SERVICE BOX: 30847 (Continued) **1016967189**

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PLACE
Address 2:	15TH FL
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	12/18/2013
Trans1 Recv Date:	12/18/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	12/18/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004408118
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	30
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002300458GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AC207 **COMMUNITY LIVING** **NY LTANKS** **S105135276**
WNW **50 NEVINS STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.224 mi.
1181 ft. **Site 5 of 8 in cluster AC**

Relative:
Lower

Actual:
40 ft.

LTANKS:

Site ID:	299842
Spill Number/Closed Date:	0104574 / 11/26/2008
Spill Date:	7/30/2001
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial

COMMUNITY LIVING (Continued) **S105135276**

Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	VSZHUNE
Referred To:	Not reported
Reported to Dept:	7/30/2001
CID:	405
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	7/30/2001
Spill Record Last Update:	11/26/2008
Spiller Name:	DEAN PETERSON
Spiller Company:	COMMUNITY LIVING
Spiller Address:	50 NEVINS ST
Spiller City,St,Zip:	BROOKLYN, NY 11217-
Spiller County:	001
Spiller Contact:	DEAN PETERSON
Spiller Phone:	(718) 788-4050
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	28241
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"01/26/04Transferred from Rommel to Austin02/17/04: Reassigned from AUSTIN to KRIMGOLD.11/05/2005 Left messages for Dean Peterson at new location at Community Living (718-855-4035). Did not receive a callback. Bishop09/13/06 This case was transferred from Albany to Region 2. Zhune called Mr. Petersen several times. He never call back. A TTF letter was sent to: Mr. Dean Petersen40 Rector StreetNew York, NY 1000608/14/08-Zhune visited the site spoke to Tiffany Adams Office/Building Manager (718) 855-4035 ext. 1303. Tiffany called Crris Heighter the Director of the Institue of Community Livingcelll 347- 219-8991, office 718- 272-6046. He said by the time that the tank failed the test in 2001 he was not the Director of the Community Living. The 3000 gallons # 2 fuel tank was recently tested by ACR Mechanical and passed the test. He will be back from vacation on september and will search for papers work. A TTF lettter was sent to:The Institute of Community Living2384 Atlantic Ave.Brooklyn NY 11233Att: Chris Heighter09/19/08 Chris Heighter sent the result for the last Tightness test. The 3000 gallons #2 fuel tank was tested on 05/07/08. The result indicates that the tank passed the test Therefore DEC is asking for information that happened in 2001.09/30/08- Zhune called Chris and gave him the phone # of Crown Leak Detection which was the company that tested the tank on 07/30/2001. 11/26/08-Chris sent the 02/21/03 tank test results thst was done by Protest.11/26/08-Zhune spoke to Bob from Protest. As per Bob the tank system was tested in December, 2002 and failed the test with a Ullage (dry) leak. They replaced the remote fill and the vent line. On 02/21/03 the system was restested and passed the test. He also said that he did not see any note about contamination at this site. Worker who did this job are no longer with ProtestSpill closed.

COMMUNITY LIVING (Continued) **S105135276**

Remarks: caller found the tank that may be connected to an abandoned tank and he believes that is why the tank test failed

Material:

Site ID:	299842
Operable Unit ID:	842960
Operable Unit:	01
Material ID:	533059
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	299843
Spill Number/Closed Date:	0209832 / 9/30/2003
Spill Date:	12/27/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	12/27/2002
CID:	365
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/27/2002
Spill Record Last Update:	9/30/2003
Spiller Name:	BOB TURRENTINE
Spiller Company:	INSTITUTE FOR COMM.LIVING
Spiller Address:	50 NEVINS ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	BOB TURRENTINE
Spiller Phone:	(212) 385-3030
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	242554
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"Notice of tank test failure sent on 12/27/02 by DEC Sigona9/30/2003 Robert Turrentine of Institute for Community Living

COMMUNITY LIVING (Continued) **S105135276**

submitted a letter with back up info to show that the tank in question was retested on Feb 21, 2003 and the tank&system passed.Spill Closed

Remarks: Not reported

Material:

Site ID:	299843
Operable Unit ID:	863058
Operable Unit:	01
Material ID:	513252
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	299843
Spill Tank Test:	1527875
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	F
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

AC208 **INSTITUTE FOR COMMUNITY LIVING** **NY UST** **U003800414**
WNW **50 NEVINS STREET** **NY HIST UST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.224 mi.
1181 ft. **Site 6 of 8 in cluster AC**

Relative:
Lower

Actual:
40 ft.

UST:

Id/Status:	2-606495 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	07/25/2016
UTM X:	586048.83920000005
UTM Y:	4504515.2880100003
Site Type:	Other

Affiliation Records:

Site Id:	28356
Affiliation Type:	Facility Owner
Company Name:	INSTITUTE FOR COMMUNITY LIVING
Contact Type:	FACILITIES DIRECTOR
Contact Name:	CHRISTOPHER HEIGHTER
Address1:	40 RECTOR STREET
Address2:	Not reported

INSTITUTE FOR COMMUNITY LIVING (Continued) **U003800414**

City:	NEW YORK
State:	NY
Zip Code:	10006
Country Code:	001
Phone:	(212) 385-3030
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/14/2008

Site Id:	28356
Affiliation Type:	Mail Contact
Company Name:	PAT VALERIO
Contact Type:	Not reported
Contact Name:	CHRISTOPHER HEIGHTER
Address1:	INSTITUTE FOR COMMUNITY LIVING
Address2:	40 RECTOR STREET
City:	NEW YORK
State:	NY
Zip Code:	10006
Country Code:	001
Phone:	(212) 385-3030
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/14/2008

Site Id:	28356
Affiliation Type:	On-Site Operator
Company Name:	INSTITUTE FOR COMMUNITY LIVING
Contact Type:	Not reported
Contact Name:	CHRISTOPHER HEIGHTER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 219-8991
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/14/2008

Site Id:	28356
Affiliation Type:	Emergency Contact
Company Name:	INSTITUTE FOR COMMUNITY LIVING
Contact Type:	Not reported
Contact Name:	CHRISTOPHER HEIGHTER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 219-8991
EMail:	Not reported

INSTITUTE FOR COMMUNITY LIVING (Continued) **U003800414**

Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/14/2008

Tank Info:

Tank Number:	001
Tank ID:	61508
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	3000
Install Date:	01/01/1985
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	03/05/2013
Next Test Date:	03/05/2018
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	05/31/2013

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B01 - Tank External Protection - Painted/Asphalt Coating
F00 - Pipe External Protection - None
I02 - Overfill - High Level Alarm
H05 - Tank Leak Detection - In-Tank System (ATG)
C03 - Pipe Location - Aboveground/Underground Combination

HIST UST:

PBS Number:	2-606495
SPDES Number:	Not reported
Emergency Contact:	DEAN PETERSEN
Emergency Telephone:	(917) 989-5449
Operator:	DEAN PETERSEN
Operator Telephone:	(800) 386-3892
Owner Name:	INSTITUTE FOR COMMUNITY LIVING
Owner Address:	40 RECTOR STREET
Owner City,St,Zip:	NEW YORK, NY 10006
Owner Telephone:	(212) 385-3030
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	ROBERT F. TURRENTINE
Mailing Address:	INSTITUTE FOR COMMUNITY LIVING
Mailing Address 2:	40 RECTOR STREET
Mailing City,St,Zip:	NEW YORK, NY 10006
Mailing Contact:	DEAN PETERSON
Mailing Telephone:	(212) 385-3030

INSTITUTE FOR COMMUNITY LIVING (Continued) **U003800414**

Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	Not reported
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	07/27/2001
Expiration Date:	07/25/2006
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	3000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	Minor Data Missing
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	3000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	None
Tank External:	Painted/Asphalt Coating
Pipe Location:	Aboveground/Underground Combination
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	None
Second Containment:	None
Leak Detection:	In-tank System
Overfill Prot:	High Level Alarm
Dispenser:	Suction
Date Tested:	Not reported
Next Test Date:	12/27/1987
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

AG209 **NY PACIFIC REALITY** **NY LTANKS** **S103479579**
SSE **626 PACIFIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.224 mi.
1185 ft. **Site 2 of 5 in cluster AG**

Relative:
Higher

Actual:
47 ft.

LTANKS:

Site ID:	282665
Spill Number/Closed Date:	9807467 / 3/3/2003
Spill Date:	9/17/1998
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	9/17/1998
CID:	233
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/17/1998
Spill Record Last Update:	3/3/2003
Spiller Name:	JACK KORN
Spiller Company:	NY PACIFIC REALITY
Spiller Address:	626 PACIFIC ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	229479
DEC Memo:	Not reported
Remarks:	tank in basement on concrete floor has a small leak spill is than a gallon and is being cleaned up now

Material:

Site ID:	282665
Operable Unit ID:	1065031
Operable Unit:	01
Material ID:	318551
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

NY PACIFIC REALITY (Continued) **S103479579**

Tank Test:

AF210 **CON EDISON** **RCRA NonGen / NLR** **1014398178**
NW **HUDSON AVE & FULTON ST** **NY MANIFEST** **NYP004205290**
1/8-1/4 **BROOKLYN, NY 11201**
0.225 mi.
1188 ft. **Site 6 of 10 in cluster AF**

Relative:
Lower

Actual:
34 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/08/2010
Facility name:	CON EDISON
Facility address:	HUDSON AVE & FULTON ST BROOKLYN, NY 11201
EPA ID:	NYP004205290
Mailing address:	4 IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	ANTONIO DELGADO
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(212) 580-8383
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP004205290
Country:	USA
Location Address 1:	FLATBUSH AVE & FULTON ST& HUDSON AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON

CON EDISON (Continued) **1014398178**

Contact:	TOM TEELING
Address:	4 IRVING PLACE RM 828
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	04/09/2010
Trans1 Recv Date:	04/09/2010
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	04/12/2010
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004205290
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980593636
Waste Code:	Not reported
Quantity:	100.0
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2010
Manifest Tracking Num:	001442096FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AF211 **VO4196** **NY MANIFEST** **S109065273**
NW **LIVINGSTON ST. & NEVINS ST.** **N/A**
1/8-1/4 **NEW YORK CITY, NY 11231**
0.227 mi.
1200 ft. **Site 7 of 10 in cluster AF**

Relative:
Lower

Actual:
40 ft.

NY MANIFEST:

EPA ID:	NYP004061826
Country:	USA
Location Address 1:	Livingston St. & Nevins St.
Location Address 2:	Not reported
Location City:	NEW YORK CITY
Location State:	NY
Location Zip Code:	11231

VO4196 (Continued) **S109065273**

Location Zip Code 4: Not reported

Mailing Info:
Name: VO4196
Contact: Not reported
Address: Not reported
City/State/Zip: Not reported
Country: Not reported
Phone: Not reported

NY MANIFEST:
No Manifest Records Available

AF212 **CON EDISON** **RCRA-CESQG** **1014397142**
NW **NEVINS ST & LIVINGSTON ST** **NY MANIFEST** **NYP004194601**
1/8-1/4 **BROOKLYN, NY 11217** **NJ MANIFEST**
0.227 mi.
1201 ft. **Site 8 of 10 in cluster AF**

Relative:
Lower

Actual:
40 ft.

RCRA-CESQG:
Date form received by agency: 09/17/2009
Facility name: CON EDISON
Facility address: NEVINS ST & LIVINGSTON ST
BROOKLYN, NY 11217
EPA ID: NYP004194601
Mailing address: 4 IRVING PL, RM 828
NEW YORK, NY 10003
Contact: CAROLINE ISKANDER
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (718) 666-4714
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No

CON EDISON (Continued) **1014397142**

On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYP004194601
Country: USA
Location Address 1: NEVINS ST & LIVINGSTON ST - MH19727
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11201
Location Zip Code 4: Not reported

Mailing Info:
Name: CONSOLIDATED EDISON
Contact: FRANKLYN MURRAY
Address: 4 IRVING PLACE RM 828
City/State/Zip: NEW YORK, NY 10003
Country: USA
Phone: 212-460-2808

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD003812047
Trans2 State ID: Not reported
Generator Ship Date: 10/05/2009
Trans1 Recv Date: 10/05/2009
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/06/2009
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYP004194601
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NJD991291105
Waste Code: Not reported
Quantity: 150.0
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 1.0
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 000893816GBF
Import Ind: N
Export Ind: N
Discr Quantity Ind: N

CON EDISON (Continued) **1014397142**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

NJ MANIFEST:

EPA Id:	NYP004194601
Mail Address:	4 IRVING PL, RM 828
Mail City/State/Zip:	NEW YORK, NY 10003
Facility Phone:	Not reported
Emergency Phone:	Not reported
Contact:	CAROLINE ISKANDER
Comments:	Not reported
SIC Code:	Not reported
County:	NY047
Municipal:	Not reported
Previous EPA Id:	Not reported
Gen Flag:	Not reported
Trans Flag:	Not reported
TSDF Flag:	Not reported
Name Change:	Not reported
Date Change:	Not reported

Manifest:

Manifest Number:	000893816GBF
EPA ID:	NYP004194601
Date Shipped:	10/05/2009
TSDF EPA ID:	NJD991291105
Transporter EPA ID:	NJD003812047
Transporter 2 EPA ID:	Not reported
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported
Transporter 10 EPA ID:	Not reported
Date Trans1 Transported Waste:	10/05/2009
Date Trans2 Transported Waste:	Not reported
Date Trans3 Transported Waste:	Not reported
Date Trans4 Transported Waste:	Not reported
Date Trans5 Transported Waste:	Not reported
Date Trans6 Transported Waste:	Not reported
Date Trans7 Transported Waste:	Not reported
Date Trans8 Transported Waste:	Not reported
Date Trans9 Transported Waste:	Not reported
Date Trans10 Transported Waste:	Not reported
Date TSDF Received Waste:	10/06/2009
TSDF EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported

CON EDISON (Continued) **1014397142**

Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	NEW YORK, NY 10003
Reason Load Was Rejected:	Not reported

Waste:

Manifest Year:	2009 New Jersey Manifest Data
Waste Code:	D008
Hand Code:	H141
Quantity:	150 G

X213 WNW 1/8-1/4 0.228 mi. 1206 ft. **NYCDEP SHAFT 16A** **RCRA-LQG** **1004762002**
NEVINS AVE & STATE ST **NY MANIFEST** **NYR000092551**
BROOKLYN, NY 11201

Site 3 of 4 in cluster X

Relative: Lower

Actual: 39 ft.

RCRA-LQG:

Date form received by agency:	02/14/2014
Facility name:	NYCDEP SHAFT 16A
Facility address:	NEVINS AVE & STATE ST BROOKLYN, NY 11201
EPA ID:	NYR000092551
Mailing address:	JUNCTION BLVD. FLUSHING, NY 11373
Contact:	SHAY MCATAMNEY
Contact address:	JUNCTION BLVD. 3RD FLOOR LOW RISE FLUSHING, NY 11373
Contact country:	US
Contact telephone:	(718) 595-4618
Contact email:	SMCATAMNEY@DEP.NYC.GOV
EPA Region:	02
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	NYCDEP
Owner/operator address:	JUNCTION BLVD

NYCDEP SHAFT 16A (Continued) **1004762002**

	FLUSHING, NY 11373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	02/05/1935
Owner/Op end date:	Not reported

Owner/operator name:	NYCDEP
Owner/operator address:	JUNCTION BLVD
	FLUSHING, NY 11373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	02/05/1935
Owner/Op end date:	Not reported

Owner/operator name:	NYCDEP
Owner/operator address:	59-17 JUNCTION BLVD
	CORONA, NY 11368
Owner/operator country:	Not reported
Owner/operator telephone:	(718) 595-3518
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

. Waste code:	D009
. Waste name:	MERCURY

Historical Generators:

Date form received by agency:	01/01/2007
Site name:	NYCDEP - SHAFT 16A
Classification:	Not a generator, verified

Date form received by agency:	01/01/2006
Site name:	NYCDEP - SHAFT 16A
Classification:	Not a generator, verified

NYCDEP SHAFT 16A (Continued) **1004762002**

Date form received by agency: 11/02/2000
Site name: NYCDEP - SHAFT 16A
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D009
. Waste name: MERCURY

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYR000092551
Country: USA
Location Address 1: NEVINS AVE & STATE ST
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11201
Location Zip Code 4: Not reported

Mailing Info:
Name: NYCDEP - SHAFT 16A
Contact: SHAY MC ATAMNEY
Address: 96-05 HORACE HARDING EXPRESSWAY
City/State/Zip: CORONA, NY 11358
Country: USA
Phone: Not reported

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAC300016672
Trans2 State ID: Not reported
Generator Ship Date: 06/06/2013
Trans1 Recv Date: 06/06/2013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/11/2013
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000092551
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 3000
Units: P - Pounds
Number of Containers: 12
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1
Year: 2013
Manifest Tracking Num: 004519427FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N

NYCDEP SHAFT 16A (Continued) **1004762002**

Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

X214
WNW
1/8-1/4
0.230 mi.
1213 ft.

68 NEVINS ST
BROOKLYN, NY 11217

Site 4 of 4 in cluster X

EDR US Hist Cleaners **1015086838**
N/A

Relative:
Lower

Actual:
39 ft.

EDR Historical Cleaners:

Name: NEVINS DRY CLEANERS
Year: 1999
Address: 68 NEVINS ST

Name: NEVINS DRY CLEANERS
Year: 2000
Address: 68 NEVINS ST

Name: NEVINS DRY CLEANERS
Year: 2001
Address: 68 NEVINS ST

Name: NEVINS DRY CLEANERS
Year: 2002
Address: 68 NEVINS ST

Name: NEVINS DRY CLEANERS
Year: 2003
Address: 68 NEVINS ST

Name: NEW NEVIN DRY CLEANERS
Year: 2004
Address: 68 NEVINS ST

AI215
NNW
1/8-1/4
0.230 mi.
1216 ft.

CON EDISON
31 ROCKWELL PL
BROOKLYN, NY 11217

Site 1 of 2 in cluster AI

NY MANIFEST **S117319732**
N/A

Relative:
Lower

Actual:
30 ft.

NY MANIFEST:

EPA ID: NYP004679083
Country: USA
Location Address 1: 31 ROCKWELL PL
Location Address 2: MH55095
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:

Name: CON EDISON
Contact: CON EDISON
Address: 4 IRVING PL

CON EDISON (Continued) **S117319732**

Address 2:	15TH FL
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	10/17/2014
Trans1 Recv Date:	10/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004679083
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	002617993GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AH216 **J & I MAINT CORP** **NY UST** **U004077290**
SSW **341 BERGEN STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.231 mi.
1219 ft. **Site 4 of 9 in cluster AH**

Relative:
Lower

Actual:
29 ft.

UST:

Id/Status:	2-247685 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	10/23/2017
UTM X:	586215.80625000002
UTM Y:	4504000.1420600004
Site Type:	Other

J & I MAINT CORP (Continued) **U004077290**

Affiliation Records:

Site Id:	9749
Affiliation Type:	Facility Owner
Company Name:	J & I MAINTENANCE CORP.
Contact Type:	SECY
Contact Name:	WARREN PROSKY
Address1:	341 BERGEN ST
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 858-3539
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	Mail Contact
Company Name:	J & I MAINTENANCE CORP.
Contact Type:	Not reported
Contact Name:	WARREN PROSKY
Address1:	341 BERGEN STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 858-3502
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	On-Site Operator
Company Name:	J & I MAINT CORP
Contact Type:	Not reported
Contact Name:	WARREN PROSKY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 858-3502
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	Emergency Contact
Company Name:	J & I MAINTENANCE CORP.
Contact Type:	Not reported
Contact Name:	WARREN PROSKY

J & I MAINT CORP (Continued) **U004077290**

Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 858-3539
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Tank Info:

Tank Number:	002
Tank ID:	25487
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	09/01/1982
Date Tank Closed:	06/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	20
Date Test:	12/01/1995
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	003
Tank ID:	25488
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	09/01/1982
Date Tank Closed:	06/01/2000
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009

J & I MAINT CORP (Continued) **U004077290**

Common Name of Substance: Gasoline

Tightness Test Method: 20
Date Test: 12/01/1995
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

AH217 **341 BERGEN ST** **NY LTANKS** **S102663561**
SSW **341 BERGEN ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.231 mi.
1219 ft. **Site 5 of 9 in cluster AH**

Relative:
Lower

Actual:
29 ft.

LTANKS:

Site ID: 66262
Spill Number/Closed Date: 9706573 / 4/30/1998
Spill Date: 9/2/1997
Spill Cause: Tank Overfill
Spill Source: Commercial Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: KSTANG
Referred To: Not reported
Reported to Dept: 9/2/1997
CID: 297
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 9/2/1997
Spill Record Last Update: 5/14/1998
Spiller Name: LEON SZUSTERMAN
Spiller Company: LEONETTE TRUCKING
Spiller Address: 389 MELROSE ST
Spiller City,St,Zip: BROOKLYN, NY 11237-
Spiller County: 001
Spiller Contact: LEON SZUSTERMAN
Spiller Phone: (718) 417-7741
Spiller Extention: Not reported
DEC Region: 2

341 BERGEN ST (Continued) **S102663561**

DER Facility ID: 63476
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"CALLED LEON SZUSTERMAN, BEEPER# 917 949-1781. HE CALLED BACK, SAID THAT IT WAS A FEW GALLONS (2-3 GAL.) SPILL FROM THE STICKLINE WHEN TANK WAS OVERFILLED HAS BEEN CONTAINED AND CLEANED UP W/SPEEDY DRY. REFER TO DEP. IWCS FOR POSSIBLE ENFORCEMENT.
Remarks: DRIVER WAS FILLING AN OUTSIDE TANK TO A TAXI SERVICE AND OVERFILLED THE TANK - FDNY ON SCENE AND SPILL HAS BEEN CONTAINED

Material:
Site ID: 66262
Operable Unit ID: 1052802
Operable Unit: 01
Material ID: 332162
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 20
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

AH218 **J & I MAINT CORP** **NY AST** **U003074628**
SSW **341 BERGEN STREET** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.231 mi.
1219 ft. **Site 6 of 9 in cluster AH**

Relative:
Lower

Actual:
29 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-247685
Program Type: PBS
UTM X: 586215.80625000002
UTM Y: 4504000.1420600004
Expiration Date: 10/23/2017
Site Type: Other

Affiliation Records:
Site Id: 9749
Affiliation Type: Facility Owner
Company Name: J & I MAINTENANCE CORP.
Contact Type: SECY
Contact Name: WARREN PROSKY
Address1: 341 BERGEN ST
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 858-3539

J & I MAINT CORP (Continued) **U003074628**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	Mail Contact
Company Name:	J & I MAINTENANCE CORP.
Contact Type:	Not reported
Contact Name:	WARREN PROSKY
Address1:	341 BERGEN STREET
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 858-3502
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	On-Site Operator
Company Name:	J & I MAINT CORP
Contact Type:	Not reported
Contact Name:	WARREN PROSKY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 858-3502
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

Site Id:	9749
Affiliation Type:	Emergency Contact
Company Name:	J & I MAINTENANCE CORP.
Contact Type:	Not reported
Contact Name:	WARREN PROSKY
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 858-3539
EMail:	Not reported
Fax Number:	Not reported
Modified By:	NRLOMBAR
Date Last Modified:	12/22/2004

J & I MAINT CORP (Continued) **U003074628**

Tank Info:

Tank Number:	001
Tank Id:	25486
Material Code:	0009
Common Name of Substance:	Gasoline

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Location:	4
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - Removed
Pipe Model:	Not reported
Install Date:	09/01/1982
Capacity Gallons:	4000
Tightness Test Method:	20
Date Test:	12/01/1995
Next Test Date:	Not reported
Date Tank Closed:	06/01/2000
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Gasoline

Tank Number:	004
Tank Id:	50501
Material Code:	0013
Common Name of Substance:	Lube Oil

Equipment Records:

B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/01/1982
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported

J & I MAINT CORP (Continued) **U003074628**

Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Lube Oil

Tank Number:	005
Tank Id:	50502
Material Code:	0013
Common Name of Substance:	Lube Oil

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None
I00 - Overfill - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/01/1982
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Lube Oil

Tank Number:	006
Tank Id:	50503
Material Code:	0013
Common Name of Substance:	Lube Oil

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron

J & I MAINT CORP (Continued) **U003074628**

Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	09/01/1982
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	Lube Oil

Tank Number:	1
Tank Id:	181236
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil

Equipment Records:

B01 - Tank External Protection - Painted/Asphalt Coating
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G02 - Tank Secondary Containment - Vault (w/access)
J00 - Dispenser - None
L00 - Piping Leak Detection - None
E00 - Piping Secondary Containment - None
H00 - Tank Leak Detection - None
K00 - Spill Prevention - None

Tank Location:	3
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/07/2009
Capacity Gallons:	275
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KAKYER
Last Modified:	12/14/2012
Material Name:	Waste Oil/Used Oil

AH219 **EDR US Hist Cleaners** **1015086814**
SSW **68 4TH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.232 mi.
1224 ft. **Site 7 of 9 in cluster AH**

Relative:
Lower

Actual:
31 ft.

EDR Historical Cleaners:

Name:	BIG APPLE CLEANERS INCORPORATED
Year:	2011
Address:	68 4TH AVE

(Continued) **1015086814**

Name: BIG APPLE CLEANERS INC
Year: 2012
Address: 68 4TH AVE

AH220 SSW 1/8-1/4 0.232 mi. 1224 ft. | **CRICKET CLEANERS 68-09 FOURTH AVE BROOKLYN, NY 11220** | **RCRA-SQG NY MANIFEST RI MANIFEST** | **1004756700 NYD981185408**

Site 8 of 9 in cluster AH

Relative: Lower

Actual: 31 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	CRICKET CLEANERS
Facility address:	68-09 FOURTH AVE BROOKLYN, NY 11220
EPA ID:	NYD981185408
Mailing address:	FOURTH AVE BROOKLYN, NY 11220
Contact:	Not reported
Contact address:	FOURTH AVE BROOKLYN, NY 11220
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	3 IN 1 CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	3 IN 1 CORP
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

CRICKET CLEANERS (Continued) **1004756700**

Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: CRICKET CLEANERS
Classification: Small Quantity Generator

Date form received by agency: 04/20/1995
Site name: CRICKET CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: NONE
. Waste name: None

Date form received by agency: 03/17/1986
Site name: CRICKET CLEANERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/31/2007
Date achieved compliance: 03/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/11/2007
Enf. disposition status: Dropped

CRICKET CLEANERS (Continued) **1004756700**

Enf. disp. status date: 03/13/2009
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 08/31/2007
Date achieved compliance: 03/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/11/2007
Enf. disposition status: Dropped
Enf. disp. status date: 03/13/2009
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Preparedness and Prevention
Date violation determined: 08/31/2007
Date achieved compliance: 03/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/11/2007
Enf. disposition status: Dropped
Enf. disp. status date: 03/13/2009
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/31/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/13/2009
Evaluation lead agency: State

Evaluation date: 08/31/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 03/13/2009
Evaluation lead agency: State

Evaluation date: 08/31/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Preparedness and Prevention
Date achieved compliance: 03/13/2009
Evaluation lead agency: State

NY MANIFEST:
EPA ID: NYD981185408
Country: USA
Location Address 1: 6809 FOURTH AVE

CRICKET CLEANERS (Continued) **1004756700**

Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11209
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYC CLNRS
Contact:	CRICKETT CLEANERS
Address:	6809 FOURTH AVENUE
City/State/Zip:	BROOKLYN, NY 11209
Country:	USA
Phone:	718-745-3886

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	PAR000524041
Generator Ship Date:	02/07/2014
Trans1 Recv Date:	02/07/2014
Trans2 Recv Date:	02/17/2014
TSD Site Recv Date:	02/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	330
Units:	P - Pounds
Number of Containers:	3
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004139534SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	PAR000524041
Generator Ship Date:	02/07/2014

CRICKET CLEANERS (Continued) **1004756700**

Trans1 Recv Date:	02/07/2014
Trans2 Recv Date:	02/17/2014
TSD Site Recv Date:	02/28/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	110
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004139534SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	NYD982792814
Generator Ship Date:	05/20/2014
Trans1 Recv Date:	05/20/2014
Trans2 Recv Date:	06/03/2014
TSD Site Recv Date:	06/10/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	440
Units:	P - Pounds
Number of Containers:	4
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004265563SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N

CRICKET CLEANERS (Continued) **1004756700**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	NJD986607380
Generator Ship Date:	09/17/2014
Trans1 Recv Date:	09/17/2014
Trans2 Recv Date:	09/23/2014
TSD Site Recv Date:	10/01/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	300
Units:	P - Pounds
Number of Containers:	3
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004455731SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000081205
Trans2 State ID:	NJD986607380
Generator Ship Date:	12/09/2014
Trans1 Recv Date:	12/09/2014
Trans2 Recv Date:	12/18/2014
TSD Site Recv Date:	01/05/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408

CRICKET CLEANERS (Continued) **1004756700**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	400
Units:	P - Pounds
Number of Containers:	4
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	004460677SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OKD981588791
Generator Ship Date:	06/12/2009
Trans1 Recv Date:	06/12/2009
Trans2 Recv Date:	06/26/2009
TSD Site Recv Date:	06/29/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	780.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001805280SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported

CRICKET CLEANERS (Continued) **1004756700**

Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	09/09/2009
Trans1 Recv Date:	09/09/2009
Trans2 Recv Date:	09/17/2009
TSD Site Recv Date:	09/18/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	975.0
Units:	P - Pounds
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002112604SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	07/16/2009
Trans1 Recv Date:	07/16/2009
Trans2 Recv Date:	07/27/2009
TSD Site Recv Date:	07/28/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	385.0
Units:	P - Pounds

CRICKET CLEANERS (Continued) **1004756700**

Number of Containers:	3.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001886935SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	09/09/2009
Trans1 Recv Date:	09/09/2009
Trans2 Recv Date:	09/17/2009
TSD Site Recv Date:	09/18/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	120.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002112604SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported

CRICKET CLEANERS (Continued) **1004756700**

Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	10/28/2009
Trans1 Recv Date:	10/28/2009
Trans2 Recv Date:	11/03/2009
TSD Site Recv Date:	11/12/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	780.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000333377CEX
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	01/14/2009
Trans1 Recv Date:	01/14/2009
Trans2 Recv Date:	01/22/2009
TSD Site Recv Date:	01/26/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	1170.0
Units:	P - Pounds
Number of Containers:	6.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	000118002SKS

CRICKET CLEANERS (Continued) **1004756700**

Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	03/26/2009
Trans1 Recv Date:	03/26/2009
Trans2 Recv Date:	04/06/2009
TSD Site Recv Date:	04/07/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	780.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001356185SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	06/09/2011
Trans1 Recv Date:	06/09/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/20/2011

CRICKET CLEANERS (Continued) **1004756700**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	330.0
Units:	P - Pounds
Number of Containers:	3.0
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003623953FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	07/21/2011
Trans1 Recv Date:	07/21/2011
Trans2 Recv Date:	07/29/2011
TSD Site Recv Date:	08/02/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	220.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002595792SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

CRICKET CLEANERS (Continued) **1004756700**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	01/14/2011
Trans1 Recv Date:	01/14/2011
Trans2 Recv Date:	01/24/2011
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	400.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003785162FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/18/2011
Trans1 Recv Date:	02/18/2011
Trans2 Recv Date:	02/24/2011
TSD Site Recv Date:	02/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842

CRICKET CLEANERS (Continued) **1004756700**

Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003785487FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/18/2011
Trans1 Recv Date:	02/18/2011
Trans2 Recv Date:	02/24/2011
TSD Site Recv Date:	02/28/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003785487FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

CRICKET CLEANERS (Continued) **1004756700**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	09/26/2011
Trans1 Recv Date:	09/26/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	09/29/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	220.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	004311695FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	01/14/2011
Trans1 Recv Date:	01/14/2011
Trans2 Recv Date:	01/24/2011
TSD Site Recv Date:	01/26/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	80.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0

CRICKET CLEANERS (Continued) **1004756700**

Year:	2011
Manifest Tracking Num:	003785162FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	11/17/2011
Trans1 Recv Date:	11/17/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/30/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD981185408
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	440.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002592360SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

RI MANIFEST:

EPA Id:	NYD981185408
Manifest Document Number:	004273569FLE
GEN Cert Date:	10/15/2010
TSDF Id:	RID084802842
TSDF Name:	SAFETY KLEEN
TSDF Date:	10/22/2010

CRICKET CLEANERS (Continued) **1004756700**

Transporter 2 Id:	NJD071629976
Transporter 2 Name:	10/22/2010
Transporter Receipt Date:	10/15/2010
Number Of Containers:	3
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Fee Exempt Code:	Not reported
Comment:	Not reported

Details:

EPA ID:	NYD981185408
Manifest Docket Number:	004273569FLE
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Quantity:	330
WT/Vol Units:	P
Item Number:	1
Transporter Name:	SAFETY KLEEN
Transporter EPA ID:	TXR000050930
GEN Cert Date:	10/15/2010
Transporter Receipt Date:	10/15/2010
Transporter 2 Receipt Date:	10/22/2010
TSDF Receipt Date:	10/22/2010
Transporter 2 ID:	NJD071629976

AH221 **EDR US Hist Cleaners** **1015080482**
SSW **61 4TH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.232 mi.
1226 ft. **Site 9 of 9 in cluster AH**

Relative:
Lower

Actual:
32 ft.

EDR Historical Cleaners:

Name:	IDEAL CLEANERS
Year:	2011
Address:	61 4TH AVE
Name:	IDEAL CLEANERS
Year:	2012
Address:	61 4TH AVE

AC222 **SPILL NUMBER 0101538** **NY LTANKS** **S105054840**
WNW **40 NEVINS ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.232 mi.
1226 ft. **Site 7 of 8 in cluster AC**

Relative:
Lower

Actual:
41 ft.

LTANKS:

Site ID:	253123
Spill Number/Closed Date:	0101538 / 7/23/2003
Spill Date:	5/9/2001
Spill Cause:	Tank Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported

SPILL NUMBER 0101538 (Continued) **S105054840**

Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	MXTIPPLE
Referred To:	Not reported
Reported to Dept:	5/9/2001
CID:	199
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/9/2001
Spill Record Last Update:	7/23/2003
Spiller Name:	Not reported
Spiller Company:	RICHARD KAPLON
Spiller Address:	24-16 QUEENS PLAZA SO
Spiller City,St,Zip:	LONG ISLAND CITY, NY
Spiller County:	001
Spiller Contact:	ANTHONY CACHO
Spiller Phone:	(718) 357-7000
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	207361
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"7/23 2003 site visit revealed that no spill occured at this location.
Remarks:	COMP RCVD A CALL FROM MR KAPLON ASKING TO CHECK INTO WHY HE WAS USING SO MUCH OIL - WHEN SERVICE MAN GOT TO LOCATION HE FOUND THEREWERE LEAKS IN TWO TANKS (275) THAT ARE IN BASEMENT - IT APPEARS THEY MAY HAVE BEEN LEAKING FOR SOME TIME AS THERE WAS SATURATED DIRT THAT HAD BEEN PLACED UNDER TANKS - THE LEGS OF THE TANKS AREVERY UNSTABLE DUE TO RUSTY CONDITION AND MR KAPLON WAS ASVISED THATSKAGGS/WALSH WANTED TO PUMP OUT THE TANKS FOR SAFETY REASONS - MRKAPLON REFUSED TO ALLOW THEM BACK INTO THE BUILDING AND WHEN THE STORE WHICH IS ALSO A TENNANT OF THE BUILDING WAS CALLED FOR ENTRYMR KAPLON HAD TOLD THEM NOT TO LET ANYONE INTO BUILDING - MR KAPLONSTATED THAT HE WANTED TO INVESTIGATE THE SITUTATION HIMSELF BEFOREANYTHING IS DONE

Material:

Site ID:	253123
Operable Unit ID:	838412
Operable Unit:	01
Material ID:	537243
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AG223 SSE 1/8-1/4 0.235 mi. 1242 ft.

195 FLATBUSH AVENUE LLC
195 FLATBUSH AVENUE
BROOKLYN, NY 11217

Site 3 of 5 in cluster AG

RCRA-LQG
FINDS
NY UST
NY HIST UST
NY MANIFEST

1000553840
NYD986962744

Relative: Higher

Actual: 48 ft.

RCRA-LQG:

Date form received by agency:	03/03/2010
Facility name:	195 FLATBUSH AVENUE LLC
Facility address:	195 FLATBUSH AVENUE BROOKLYN, NY 11217
EPA ID:	NYD986962744
Mailing address:	METROTECH CENTER NORTH C/O FCR C BROOKLYN, NY 11201
Contact:	ROBERT SANNA
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 923-8400
Contact email:	BSANNA@FCRC.COM
EPA Region:	02
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	AY 195 FLATBUSH LLC
Owner/operator address:	METROTECH CENTER NORTH C/O FCR C BROOKLYN, NY 11201
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/2006
Owner/Op end date:	Not reported
Owner/operator name:	MOBIL OIL CORP
Owner/operator address:	3225 GALLOWS RD FAIRFAX, VA 22037
Owner/operator country:	Not reported
Owner/operator telephone:	(703) 849-3330
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	AY 195 FLATBUSH LLC

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Owner/operator address: METROTECH CENTER NORTH C/O FCR C
BROOKLYN, NY 11201
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/2006
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D030
. Waste name: 2,4-DINITROTOLUENE

. Waste code: D032
. Waste name: HEXACHLOROBENZENE

Historical Generators:
Date form received by agency: 01/08/2009
Site name: AY 195 FLATBUSH LLC
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D006
. Waste name: CADMIUM

Date form received by agency: 01/01/2007

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Site name: MOBIL OIL CORP SS #F08
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Site name: MOBIL OIL CORP SS #F08
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: MOBIL OIL CORP SS #F08
Classification: Not a generator, verified

Date form received by agency: 04/10/1991
Site name: MOBIL OIL CORP SS #F08
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/20/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

FINDS:

Registry ID: 110043086843

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

HAZARDOUS WASTE BIENNIAL REPORTER

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

UST:

Id/Status:	2-157317 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	03/11/2011
UTM X:	586545.65552000003
UTM Y:	4503968.9298200002
Site Type:	Retail Gasoline Sales

Affiliation Records:

Site Id:	5201
Affiliation Type:	Mail Contact
Company Name:	AY 195 FLATBUSH, LLC
Contact Type:	Not reported
Contact Name:	DAVID BERLINER
Address1:	C/O FOREST CITY RATNER COMP.
Address2:	1 METROTECH CTR NORTH
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	CMS@GILBARCO.COM
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/15/2008

Site Id:	5201
Affiliation Type:	On-Site Operator
Company Name:	MOBIL R/S #11859
Contact Type:	Not reported
Contact Name:	STATION MANAGER
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 783-0409
EMail:	Not reported
Fax Number:	Not reported
Modified By:	dxliving
Date Last Modified:	10/2/2007

Site Id:	5201
Affiliation Type:	Emergency Contact
Company Name:	AY 195 FLATBUSH, LLC

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Contact Type:	Not reported
Contact Name:	ENVIRONMENTAL HELP DESK
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/15/2008

Site Id:	5201
Affiliation Type:	Facility Owner
Company Name:	AY 195 FLATBUSH, LLC
Contact Type:	VP
Contact Name:	DAVID BERLINER
Address1:	195 FLATBUSH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11201
Country Code:	001
Phone:	(718) 923-8400
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	10/15/2008

Tank Info:

Tank Number:	001
Tank ID:	29889
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1975
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	002
Tank ID:	29890
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1975
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	9999
Common Name of Substance:	Other
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	003
Tank ID:	29891
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	4000
Install Date:	12/01/1974
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	004
Tank ID:	29892
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

I00 - Overfill - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	005
Tank ID:	29893
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 006
Tank ID: 29894
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 550
Install Date: 12/01/1970
Date Tank Closed: 03/01/1991
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 007
Tank ID: 29895
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 550
Install Date: 12/01/1970
Date Tank Closed: 03/01/1991

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

I00 - Overfill - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	008
Tank ID:	29896
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 009

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Tank ID:	29897
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	010
Tank ID:	29898
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	011
Tank ID:	29899
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	012
Tank ID:	29900
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	013
Tank ID:	29901
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	014
Tank ID:	29902
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 015
Tank ID: 29903
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 550
Install Date: 12/01/1970
Date Tank Closed: 03/01/1991
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 016
Tank ID: 29904
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 550
Install Date: 12/01/1970
Date Tank Closed: 03/01/1991
Registered: True
Tank Location: Underground

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 017
Tank ID: 29905
Tank Status: Closed Prior to Micro Conversion, 03/91
Material Name: Closed Prior to Micro Conversion, 03/91
Capacity Gallons: 550
Install Date: 12/01/1970
Date Tank Closed: 03/01/1991
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: TRANSLAT
Last Modified: 03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number: 018
Tank ID: 29906
Tank Status: Closed Prior to Micro Conversion, 03/91

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	03/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	019
Tank ID:	29907
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	550
Install Date:	12/01/1970
Date Tank Closed:	04/01/1991
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I00 - Overfill - None
B00 - Tank External Protection - None

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

H00 - Tank Leak Detection - None

Tank Number:	102
Tank ID:	66801
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	Not reported
Date Tank Closed:	11/01/1989
Registered:	True
Tank Location:	Underground
Tank Type:	Z
Material Code:	ZZZZ
Common Name of Substance:	Invalid Material - Please Fix
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

Tank Number:	104
Tank ID:	47172
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	Not reported
Date Tank Closed:	06/01/1992
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

C02 - Pipe Location - Underground/On-ground
F00 - Pipe External Protection - None

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
B04 - Tank External Protection - Fiberglass
I00 - Overfill - None
H00 - Tank Leak Detection - None

Tank Number:	105
Tank ID:	41447
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	01/01/1988
Date Tank Closed:	10/27/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	04/06/2006
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/07/2008

Equipment Records:

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser
B04 - Tank External Protection - Fiberglass
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number:	106
Tank ID:	41448
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	01/01/1988
Date Tank Closed:	10/27/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Date Test: 04/06/2006
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/07/2008

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number: 107
Tank ID: 41449
Tank Status: Closed - Removed
Material Name: Closed - Removed
Capacity Gallons: 4000
Install Date: 01/01/1988
Date Tank Closed: 10/27/2008
Registered: True
Tank Location: Underground
Tank Type: Fiberglass coated steel
Material Code: 0009
Common Name of Substance: Gasoline

Tightness Test Method: 21
Date Test: 04/06/2006
Next Test Date: Not reported
Pipe Model: Not reported
Modified By: NRLOMBAR
Last Modified: 11/07/2008

Equipment Records:

B04 - Tank External Protection - Fiberglass
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number: 108
Tank ID: 41450

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	01/01/1988
Date Tank Closed:	10/27/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	04/06/2006
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/07/2008

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser
C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
B04 - Tank External Protection - Fiberglass
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number:	109
Tank ID:	41451
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	4000
Install Date:	01/01/1988
Date Tank Closed:	10/27/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Fiberglass coated steel
Material Code:	0009
Common Name of Substance:	Gasoline
Tightness Test Method:	21
Date Test:	04/06/2006
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/07/2008

Equipment Records:

B04 - Tank External Protection - Fiberglass
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J01 - Dispenser - Pressurized Dispenser

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

C02 - Pipe Location - Underground/On-ground
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
F03 - Pipe External Protection - Original Impressed Current
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve
L07 - Piping Leak Detection - Pressurized Piping Leak Detector

Tank Number:	110
Tank ID:	50671
Tank Status:	Closed - Removed
Material Name:	Closed - Removed
Capacity Gallons:	1000
Install Date:	01/01/1990
Date Tank Closed:	10/27/2008
Registered:	True
Tank Location:	Underground
Tank Type:	Equivalent technology
Material Code:	0022
Common Name of Substance:	Waste Oil/Used Oil
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	NRLOMBAR
Last Modified:	11/07/2008

Equipment Records:

A00 - Tank Internal Protection - None
D00 - Pipe Type - No Piping
J00 - Dispenser - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
H01 - Tank Leak Detection - Interstitial - Electronic Monitoring
B04 - Tank External Protection - Fiberglass
L00 - Piping Leak Detection - None
K01 - Spill Prevention - Catch Basin
E00 - Piping Secondary Containment - None
G04 - Tank Secondary Containment - Double-Walled (Underground)
I01 - Overfill - Float Vent Valve

HIST UST:

PBS Number:	2-157317
SPDES Number:	Not reported
Emergency Contact:	ENVIRONMENTAL HELP DESK
Emergency Telephone:	(800) 662-4567
Operator:	JOHN TSAO
Operator Telephone:	(718) 783-0409
Owner Name:	EXXONMOBIL OIL CORP
Owner Address:	3225 GALLOWS RD, 6W307
Owner City,St,Zip:	FAIRFAX, VA 22037
Owner Telephone:	(703) 849-6252
Owner Type:	Corporate/Commercial
Owner Subtype:	Mobil Oil Company

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Mailing Name:	EXXONMOBIL OIL CORPORATION C/O NDE ENVIRONMENTAL
Mailing Address:	P.O. BOX 142667
Mailing Address 2:	Not reported
Mailing City,St,Zip:	AUSTIN, TX 78714-2667
Mailing Contact:	EMILY MILLER
Mailing Telephone:	(800) 800-4633
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	195 FLATBUSH AVENUE
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	RETAIL GASOLINE SALES
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	05/11/2001
Expiration Date:	10/29/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	22000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2

Tank Id:	102
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	11/01/1989
Capacity (gals):	1000
Product Stored:	USED OIL
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	None
Pipe Type:	NONE
Pipe Internal:	None
Pipe External:	None
Second Containment:	Vault (w/access)
Leak Detection:	Electronic
Overfill Prot:	None
Dispenser:	0
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Deleted:	False
Updated:	True
Lat/long:	Not reported

Tank Id:	104
Tank Location:	UNDERGROUND
Tank Status:	Closed-Removed
Install Date:	Not reported
Capacity (gals):	1000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Fiberglass reinforced plastic [FRP]
Tank Internal:	None
Tank External:	Fiberglass
Pipe Location:	Underground
Pipe Type:	Not reported
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	Not reported
Leak Detection:	Not reported
Overfill Prot:	Not reported
Dispenser:	Not reported
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	06/01/1992
Test Method:	Not reported
Deleted:	False
Updated:	True
Lat/long:	Not reported

NY MANIFEST:

EPA ID:	NYD986962744
Country:	USA
Location Address 1:	195 FLATBUSH AVENUE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	AY 195 FLATBUSH LLC
Contact:	DAVID BERLINER
Address:	1 METROTECH CENTER NORTH
City/State/Zip:	BROOKLYN, NY 11201
Country:	USA
Phone:	718-923-8400

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986607380
Trans2 State ID:	MI0000263871
Generator Ship Date:	06/04/2009
Trans1 Recv Date:	06/04/2009

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Trans2 Recv Date:	07/01/2009
TSD Site Recv Date:	07/27/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986962744
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	Not reported
Quantity:	2000.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	004300973JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	Y
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	MID980991566
Alt Fac Sign Date:	2009-07-29
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD986607380
Trans2 State ID:	Not reported
Generator Ship Date:	06/04/2009
Trans1 Recv Date:	06/04/2009
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/01/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986962744
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID980991566
Waste Code:	Not reported
Quantity:	75.0
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	004300974JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

195 FLATBUSH AVENUE LLC (Continued) **1000553840**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986607380
Trans2 State ID:	MI0000263871
Generator Ship Date:	06/04/2009
Trans1 Recv Date:	06/04/2009
Trans2 Recv Date:	07/01/2009
TSD Site Recv Date:	07/27/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986962744
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	MID000724831
Waste Code:	Not reported
Quantity:	1000.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	004300973JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	Y
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	MID980991566
Alt Fac Sign Date:	2009-07-29
Mgmt Method Type Code:	H141

AG224 **EDR US Hist Auto Stat** **1015295405**
SSE **195 FLATBUSH AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.235 mi.
1242 ft. **Site 4 of 5 in cluster AG**

Relative:
Higher

Actual:
48 ft.

EDR Historical Auto Stations:

Name:	MOBIL 123 SERVICE STATION
Year:	2001
Address:	195 FLATBUSH AVE

Name:	MOBIL 123 SERVICE STATION
Year:	2002
Address:	195 FLATBUSH AVE

(Continued) **1015295405**

Name: MOBIL 123 SERVICE STATION
Year: 2006
Address: 195 FLATBUSH AVE

Name: MOBIL 123 SERVICE STATION
Year: 2008
Address: 195 FLATBUSH AVE

AJ225 **LEE-VIC INDUSTRIES INC** **RCRA NonGen / NLR** **1000140013**
WSW **88 THIRD AVE** **NY MANIFEST** **NYD001375500**
1/8-1/4 **BROOKLYN, NY 11217**
0.237 mi.
1252 ft. **Site 1 of 3 in cluster AJ**

Relative:
Lower

Actual:
28 ft.

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: LEE-VIC INDUSTRIES INC
Facility address: 88 THIRD AVE
BROOKLYN, NY 112172314
EPA ID: NYD001375500
Mailing address: THIRD AVE
BROOKLYN, NY 11217
Contact: Not reported
Contact address: THIRD AVE
BROOKLYN, NY 11217
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: LEE-VIC INDUSTRIES INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: LEE-VIC INDUSTRIES INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, WY 99999
Owner/operator country: US
Owner/operator telephone: (212) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

LEE-VIC INDUSTRIES INC (Continued) **1000140013**

Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: LEE-VIC INDUSTRIES INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: LEE-VIC INDUSTRIES INC
Classification: Not a generator, verified

Date form received by agency: 07/25/1988
Site name: LEE-VIC INDUSTRIES INC
Classification: Large Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD001375500
Country: USA
Location Address 1: 88 THRID AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: LEE VIC INDUSTRIES
Contact: LEE VIC INDUSTRIES
Address: 88 THIRD AVENUE
City/State/Zip: BROOKLYN, NY 11217

LEE-VIC INDUSTRIES INC (Continued) **1000140013**

Country: USA
Phone: 718-834-8401

Manifest:

Document ID: NYA6459885
Manifest Status: Completed copy
Trans1 State ID: Not reported
Trans2 State ID: 1C1244
Generator Ship Date: 07/29/1988
Trans1 Recv Date: 07/29/1988
Trans2 Recv Date: / /
TSD Site Recv Date: 07/29/1988
Part A Recv Date: 08/11/1988
Part B Recv Date: 08/11/1988
Generator EPA ID: NYD001375500
Trans1 EPA ID: NYD000824334
Trans2 EPA ID: Not reported
TSDF ID: NYD000824334
Waste Code: F003 - UNKNOWN
Quantity: 00440
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1988

AJ226 **MH TM1114** **NY AST** **U003383648**
WSW **88TH ST/3RD AVE** **NY Spills** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.237 mi.
1252 ft. **Site 2 of 3 in cluster AJ**

Relative:
Lower

Actual:
28 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Unregulated/Closed
Facility Id: 2-047252
Program Type: PBS
UTM X: 586064.33276999998
UTM Y: 4504125.3430500003
Expiration Date: 02/05/1997
Site Type: Unknown

Affiliation Records:
Site Id: 728
Affiliation Type: Facility Owner
Company Name: LEE VIC INDUSTRIES INC
Contact Type: Not reported
Contact Name: Not reported
Address1: 88 3RD AVE
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11217
Country Code: 001
Phone: (718) 834-8401

MH TM1114 (Continued) **U003383648**

EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	728
Affiliation Type:	Mail Contact
Company Name:	LEE VIC INDUSTRIES INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	88 3RD AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 834-8401
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	728
Affiliation Type:	On-Site Operator
Company Name:	LEE VIC INDUSTRIES INC
Contact Type:	Not reported
Contact Name:	CORNEL J VAN OPPRE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 834-8401
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	728
Affiliation Type:	Emergency Contact
Company Name:	LEE VIC INDUSTRIES INC
Contact Type:	Not reported
Contact Name:	CORNEL J VAN OPPRE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 834-8401
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

MH TM1114 (Continued) **U003383648**

Tank Info:

Tank Number:	001
Tank Id:	1968
Material Code:	0003
Common Name of Substance:	#6 Fuel Oil (On-Site Consumption)

Equipment Records:

	A00 - Tank Internal Protection - None
	D02 - Pipe Type - Galvanized Steel
	J02 - Dispenser - Suction Dispenser
	C00 - Pipe Location - No Piping
	F00 - Pipe External Protection - None
	G03 - Tank Secondary Containment - Vault (w/o access)
	I00 - Overfill - None
	B00 - Tank External Protection - None
	H00 - Tank Leak Detection - None
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	Closed - In Place
Pipe Model:	Not reported
Install Date:	12/01/1964
Capacity Gallons:	10000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	TRANSLAT
Last Modified:	03/04/2004
Material Name:	#6 Fuel Oil (On-Site Consumption)

SPILLS:

Facility ID:	0111223
Facility Type:	ER
DER Facility ID:	62103
Site ID:	64442
DEC Region:	2
Spill Date:	2/26/2002
Spill Number/Closed Date:	0111223 / 4/2/2002
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	2/26/2002
CID:	270
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False

MH TM1114 (Continued) **U003383648**

Remediation Phase: 0
Date Entered In Computer: 2/26/2002
Spill Record Last Update: 4/2/2002
Spiller Name: SAME
Spiller Company: CON ED
Spiller Address: 4 IRVING PLACE
Spiller City,St,Zip: MANHATTAN, NY 10023
Spiller Company: 001
Contact Name: CALLER
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was
"FOLEY"Con Ed e2mis #141523 Notes:2-26-02 1118 HRS M. ADAMO # 28458
I&A NETWORK TRANSF REMOVAL CREW. REPORTS WHILE REMOVING A TRANSF ON ISOLATED FDR 8B83 FROM TM1114 HE FOUND THE TRANSF LEAKED (DIPPED TESTED) APPROX 50 GALLONS TRANSF OIL ONTO TRANSF FLOOR. THERE IS NO WATER. ENGENEERING PLATES INDICATES A SEWER CONNECTION. HE CAN NOT TELL AT THIS TIME IF SEWER IS STILL CONNECTED. HE DOES NOT SEE A SUMP OR SUMP PUMP OR EARTHEN SUMP AT THIS TIME. ONLY OIL FILLED EQUIPMENT IN STRUCTURE IS TRANSF AND HISTORICAL RECORD OF TRANSF IS 37 PPM AND WAS LAST TESTED 12-11-84. VISIUALLY SEES IT LEAKING WHEN IT WAS BEING REMOVED. HE WILL TAKE A LIQUID SAMPLE FROM SOURCE (TRANSF) AND REQUEST A EMERG PRIORITY FOR PCB SAMPLE RESULTS. THEY WILL START CLEANUP AS 50- 499 PPM. A FLUSH CREW IS ON LOCATION AND SPILL VAN WAS DISPATCHED TO LOCATION. A OVER 50 PPM TANKER WAS ORDER (EPA # NYP004096343) E.S.TAG 30044WAS PLACED. CHAIN OF CUSTODY # BB01466 .
OS A. LOSCHIAVO WILL BRING SAMPLE TO CHEM LAB. ENVIR REP R. JAMES WAS NOTIFIED AT 1126 HRS. CIG B. MURPHY WAS NOTIFIED 1143 HRS.
26-FEB-2002 13:25 HRS.NETWORKS DEPT. LEAD MECH REPORTS: ASTORIA > 50 TANKER REMOVED 225 GAL'S OF DIELECTRIC FLUID FROM UNIT. UNIT FLUID CAPACITY PLATE INDICATES UNIT CAPACITY IS 265 GALS. IT IS NOW DETERMINED 40 GALS OF DIELECTRIC FLUID HAS BEEN RELEASED FROM UNIT IN TO THE DIRT OF THE CONCRETE STRUCTURE.2-26-02 15:20HRS R. JAMES REPORTS, DRAIN WAS FOUND IN T.M AND IT WAS CLOGGED S.PACE 49874.UPDATE------2/27/02 BECAUSE THE DRAIN WAS CLOGGED NO LIQUIDS COULD ESCAPE THE STRUCTURE THROUGH THE DRAIN.2-26-02 LAB SEQ# 02-01631-001 40 PPM.2-26-02 A. WALKER REORTS (ENV OPS) T.M REMOVED AND DRAINED TOTAL LIQUIDS FROM STRUCTURE WAS 75 GALLONS OF WATER AND 225 GALLONS OF OIL. 10 DRUMS OF SOLIDS REMOVED. STRUCTURE DOUBLE WASHED WITH BIO GEN 760. NO SUMP, BUT DRAIN WAS PRESENT, AND NOT WORKING AND IT WAS FOUND CEMENTED. JOB WAS 100% COMPLETED.
Remarks: leak from transformer pcb ppm 37 12/11/84

Material:
Site ID: 64442
Operable Unit ID: 849754
Operable Unit: 01
Material ID: 528814
Material Code: 0541A
Material Name: DIELECTRIC FLUID
Case No.: Not reported
Material FA: Petroleum
Quantity: 50
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

MH TM1114 (Continued) **U003383648**

Tank Test:

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227 West 1/8-1/4 0.239 mi. 1261 ft. **467 PACIFIC ST**
467 PACIFIC ST
BROOKLYN, NY 11201

NY AST **U003383533**
N/A

Relative: Lower

Actual: 32 ft.

AST:

Region:	STATE
DEC Region:	2
Site Status:	Active
Facility Id:	2-047163
Program Type:	PBS
UTM X:	586000.28766000003
UTM Y:	4504283.9138099998
Expiration Date:	03/21/2018
Site Type:	Apartment Building/Office Building

Affiliation Records:

Site Id:	721
Affiliation Type:	Mail Contact
Company Name:	GOLDIN MGMT
Contact Type:	Not reported
Contact Name:	STEPHEN EGBERT
Address1:	25 8TH AVE
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	12/11/2014

Site Id:	721
Affiliation Type:	On-Site Operator
Company Name:	467 PACIFIC ST
Contact Type:	Not reported
Contact Name:	GOLDIN MGT
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/13/2009

Site Id:	721
Affiliation Type:	Emergency Contact
Company Name:	467 PACIFIC OWNERS CORP

467 PACIFIC ST (Continued) **U003383533**

Contact Type:	Not reported
Contact Name:	PETER DEVLIN
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	MSBAPTIS
Date Last Modified:	4/13/2009

Site Id:	721
Affiliation Type:	Facility Owner
Company Name:	467 PACIFIC OWNERS CORP
Contact Type:	MANAGER
Contact Name:	STEPHEN EGBERT
Address1:	C/O GOLDIN MGMT., 25 8TH AVE.
Address2:	Not reported
City:	BROOKLYN
State:	NY
Zip Code:	11217
Country Code:	001
Phone:	(718) 230-2600
EMail:	Not reported
Fax Number:	Not reported
Modified By:	LSZINOMA
Date Last Modified:	12/11/2014

Tank Info:

Tank Number:	001
Tank Id:	1636
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
H04 - Tank Leak Detection - Groundwater Well
B00 - Tank External Protection - None

Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	12/01/1943
Capacity Gallons:	3000
Tightness Test Method:	NN

467 PACIFIC ST (Continued) **U003383533**

Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	LSZINOMA
Last Modified:	12/11/2014
Material Name:	#2 Fuel Oil (On-Site Consumption)

AF228 **CON EDISON** **NY MANIFEST** **S117316183**
NW **FO 6 NEVINS ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.240 mi.
1269 ft. **Site 9 of 10 in cluster AF**

Relative:
Lower

Actual:
36 ft.

NY MANIFEST:

EPA ID:	NYP004634234
Country:	USA
Location Address 1:	FO 6 NEVINS ST
Location Address 2:	MH 55959
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/20/2014
Trans1 Recv Date:	08/20/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/21/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004634234
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	900
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	002407535GBF
Import Ind:	N

CON EDISON (Continued) **S117316183**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AG229 **CON EDISON SERVICE BOX: 45688** **RCRA NonGen / NLR** **1016961739**
South **32 5TH AVE & DEAN ST** **NY MANIFEST** **NYP004346151**
1/8-1/4 **BROOKLYN, NY 11215**
0.240 mi.
1269 ft. **Site 5 of 5 in cluster AG**

Relative:
Higher

Actual:
47 ft.

RCRA NonGen / NLR:

Date form received by agency:	09/15/2013
Facility name:	CON EDISON SERVICE BOX: 45688
Facility address:	32 5TH AVE & DEAN ST BROOKLYN, NY 11215
EPA ID:	NYP004346151
Mailing address:	IRVING PL, RM 828 NEW YORK, NY 10003
Contact:	KHARY BERRY
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4574
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/15/2013
Site name:	CON EDISON SERVICE BOX: 45688
Classification:	Conditionally Exempt Small Quantity Generator

CON EDISON SERVICE BOX: 45688 (Continued) **1016961739**

Violation Status: No violations found

NY MANIFEST:

EPA ID:	NYP004346151
Country:	USA
Location Address 1:	34 5TH AVE
Location Address 2:	SB #45688
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	08/15/2013
Trans1 Recv Date:	08/15/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/15/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004346151
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	40
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002219547GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AB230 **CONTINENTAL GENERAL TIRE INC** **RCRA NonGen / NLR** **1001090214**
West **472 ATLANTIC AVE** **FINDS** **NYR000020511**
1/8-1/4 **BROOKLYN, NY 11217** **NY MANIFEST**
0.240 mi.
1269 ft. **Site 2 of 4 in cluster AB**

Relative:
Lower

Actual:
35 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	CONTINENTAL GENERAL TIRE INC
Facility address:	472 ATLANTIC AVE BROOKLYN, NY 112171813
EPA ID:	NYR000020511
Mailing address:	GENERAL ST AKRON, NY 44329
Contact:	Not reported
Contact address:	GENERAL ST AKRON, NY 44329
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CONTINENTAL GENERAL TIRE INC
Owner/operator address:	ONE GENERAL ST AKRON, OH 44329
Owner/operator country:	US
Owner/operator telephone:	(216) 798-2537
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	CONTINENTAL GENERAL TIRE INC
Owner/operator address:	ONE GENERAL ST AKRON, OH 44329
Owner/operator country:	US
Owner/operator telephone:	(216) 798-2537
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

CONTINENTAL GENERAL TIRE INC (Continued) **1001090214**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: CONTINENTAL GENERAL TIRE INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: CONTINENTAL GENERAL TIRE INC
Classification: Not a generator, verified

Date form received by agency: 03/06/1996
Site name: CONTINENTAL GENERAL TIRE INC
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

FINDS:

Registry ID: 110004522874

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYR000020511
Country: USA
Location Address 1: 472 ATLANTIC AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CONTINENTAL GENERAL TIRE INC
Contact: CONTINENTAL GENERAL TIRE INC
Address: 1 GENERAL ST
City/State/Zip: AKRON, OH 44329
Country: USA
Phone: 800-969-3478

CONTINENTAL GENERAL TIRE INC (Continued) **1001090214**

Manifest:

Document ID:	NJA2185052
Manifest Status:	Completed copy
Trans1 State ID:	S2265
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/1996
Trans1 Recv Date:	04/03/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/03/1996
Part A Recv Date:	06/07/1996
Part B Recv Date:	04/15/1996
Generator EPA ID:	NYR000020511
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

Document ID:	NJA2185036
Manifest Status:	Completed copy
Trans1 State ID:	S2265
Trans2 State ID:	Not reported
Generator Ship Date:	04/02/1996
Trans1 Recv Date:	04/02/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/02/1996
Part A Recv Date:	06/07/1996
Part B Recv Date:	04/11/1996
Generator EPA ID:	NYR000020511
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

Document ID:	NJA2185060
Manifest Status:	Completed copy
Trans1 State ID:	S2265
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/1996
Trans1 Recv Date:	04/03/1996
Trans2 Recv Date:	/ /

CONTINENTAL GENERAL TIRE INC (Continued) **1001090214**

TSD Site Recv Date:	04/03/1996
Part A Recv Date:	06/07/1996
Part B Recv Date:	04/15/1996
Generator EPA ID:	NYR000020511
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

Document ID:	NJA2185037
Manifest Status:	Completed copy
Trans1 State ID:	S2265
Trans2 State ID:	Not reported
Generator Ship Date:	04/02/1996
Trans1 Recv Date:	04/02/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/02/1996
Part A Recv Date:	06/07/1996
Part B Recv Date:	04/11/1996
Generator EPA ID:	NYR000020511
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020
Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

Document ID:	NJA2185050
Manifest Status:	Completed copy
Trans1 State ID:	S2265
Trans2 State ID:	Not reported
Generator Ship Date:	04/03/1996
Trans1 Recv Date:	04/03/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/03/1996
Part A Recv Date:	06/07/1996
Part B Recv Date:	04/15/1996
Generator EPA ID:	NYR000020511
Trans1 EPA ID:	NJD054126164
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	D008 - LEAD 5.0 MG/L TCLP
Quantity:	00020

CONTINENTAL GENERAL TIRE INC (Continued) **1001090214**

Units:	Y - Cubic yards* (.85 tons)
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1996

AB231 **GENERAL TIRE SERVICE** **NY UST** **U001840843**
West **472 ATLANTIC AVENUE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.240 mi.
1269 ft. **Site 3 of 4 in cluster AB**

Relative:
Lower

Actual:
35 ft.

UST:

Id/Status:	2-477362 / Unregulated/Closed
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	09/12/1994
UTM X:	585990.34459999995
UTM Y:	4504381.2754600001
Site Type:	Unknown

Affiliation Records:

Site Id:	21168
Affiliation Type:	Facility Owner
Company Name:	GENERAL TIRE INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	ONE GENERAL STREET
Address2:	Not reported
City:	AKRON
State:	OH
Zip Code:	44329
Country Code:	001
Phone:	(216) 798-2994
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	21168
Affiliation Type:	Mail Contact
Company Name:	GENERAL TIRE INC
Contact Type:	Not reported
Contact Name:	Not reported
Address1:	ONE GENERAL STREET
Address2:	Not reported
City:	AKRON
State:	OH
Zip Code:	44329
Country Code:	001
Phone:	(216) 798-2994
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

GENERAL TIRE SERVICE (Continued) **U001840843**

Site Id:	21168
Affiliation Type:	On-Site Operator
Company Name:	GENERAL TIRE SERVICE
Contact Type:	Not reported
Contact Name:	GENERAL TIRE SERVICE
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-1151
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Site Id:	21168
Affiliation Type:	Emergency Contact
Company Name:	GENERAL TIRE INC
Contact Type:	Not reported
Contact Name:	TONY SCHIFANO
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 643-1151
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	41039
Tank Status:	Closed Prior to Micro Conversion, 03/91
Material Name:	Closed Prior to Micro Conversion, 03/91
Capacity Gallons:	2000
Install Date:	03/01/1947
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Pipe Model:	Not reported
Modified By:	TRANSLAT
Last Modified:	03/04/2004

Equipment Records:

GENERAL TIRE SERVICE (Continued) **U001840843**

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D02 - Pipe Type - Galvanized Steel
G00 - Tank Secondary Containment - None
I00 - Overfill - None
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

AB232 **EDR US Hist Cleaners** **1015065163**
West **472 ATLANTIC AVE** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.240 mi.
1269 ft. **Site 4 of 4 in cluster AB**

Relative:
Lower

Actual:
35 ft.

EDR Historical Cleaners:

Name: ATLANTIS SUPER WASH CTR
Year: 2002
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CTR
Year: 2003
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2005
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2006
Address: 472 ATLANTIC AVE

Name: 472 ATLANTIC LAUNDROMAT INC
Year: 2006
Address: 472 ATLANTIC AVE

Name: 472 ATLANTIC LAUNDROMAT INC
Year: 2007
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2007
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2008
Address: 472 ATLANTIC AVE

Name: 472 ATLANTIC LAUNDROMAT INC
Year: 2008
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2009
Address: 472 ATLANTIC AVE

Name: 472 ATLANTIC LAUNDROMAT INC
Year: 2009

(Continued) **1015065163**

Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CTR
Year: 2010
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2011
Address: 472 ATLANTIC AVE

Name: ATLANTIS SUPER WASH CENTER
Year: 2012
Address: 472 ATLANTIC AVE

AK233 **CONTINENTAL EQUITIES** **NY AST** **U003390974**
ENE **123-129 LAFAYETTE AVE** **NY HIST AST** **N/A**
1/8-1/4 **BKLYN, NY 11217**
0.241 mi.
1275 ft. **Site 1 of 2 in cluster AK**

Relative:
Higher

Actual:
70 ft.

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-359890
Program Type: PBS
UTM X: 586799.92047000001
UTM Y: 4504542.43927
Expiration Date: 01/31/2018
Site Type: Apartment Building/Office Building

Affiliation Records:
Site Id: 18110
Affiliation Type: Facility Owner
Company Name: LAFAYETTE PROPERTIES, LLC
Contact Type: PARTNER
Contact Name: RICHARD MARANS
Address1: 29 BROADWAY, SUITE 2400
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10006
Country Code: 001
Phone: (212) 425-8666
EMail: Not reported
Fax Number: Not reported
Modified By: KAKYER
Date Last Modified: 1/3/2013

Site Id: 18110
Affiliation Type: Mail Contact
Company Name: LAFAYETTE PROPERTIES, LLC
Contact Type: Not reported
Contact Name: RICHARD MARANS
Address1: 29 BROADWAY
Address2: SUITE 2400
City: NEW YORK
State: NY

CONTINENTAL EQUITIES (Continued) **U003390974**

Zip Code:	10006
Country Code:	001
Phone:	(212) 968-0244
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KXTANG
Date Last Modified:	12/4/2007

Site Id:	18110
Affiliation Type:	On-Site Operator
Company Name:	123 LAFAYETTE AVENUE
Contact Type:	Not reported
Contact Name:	LUIS RUIZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(347) 277-2360
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	1/3/2013

Site Id:	18110
Affiliation Type:	Emergency Contact
Company Name:	LAFAYETTE PROPERTIES, LLC
Contact Type:	Not reported
Contact Name:	LUIS RUIZ
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	999
Phone:	(347) 277-2360
EMail:	Not reported
Fax Number:	Not reported
Modified By:	KAKYER
Date Last Modified:	1/3/2013

Tank Info:

Tank Number:	001
Tank Id:	20521
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G01 - Tank Secondary Containment - Diking (Aboveground)
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None

CONTINENTAL EQUITIES (Continued) **U003390974**

	I04 - Overfill - Product Level Gauge (A/G)
	B05 - Tank External Protection - Jacketed
	H03 - Tank Leak Detection - Vapor Well
	C01 - Pipe Location - Aboveground
Tank Location:	1
Tank Type:	Steel/Carbon Steel/Iron
Tank Status:	In Service
Pipe Model:	Not reported
Install Date:	03/18/1960
Capacity Gallons:	2000
Tightness Test Method:	NN
Date Test:	Not reported
Next Test Date:	Not reported
Date Tank Closed:	Not reported
Register:	True
Modified By:	KXTANG
Last Modified:	12/04/2007
Material Name:	#2 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number:	2-359890
SWIS Code:	6101
Operator:	MITCHELL DAVIE
Facility Phone:	(718) 237-2235
Facility Addr2:	123 LAFAYETTE AVE
Facility Type:	Not reported
Emergency:	MITCHELL DAVIE
Emergency Tel:	(718) 237-2235
Old PBSNO:	Not reported
Date Inspected:	Not reported
Inspector:	Not reported
Result of Inspection:	Not reported
Owner Name:	CONTINENTAL EQUITIES
Owner Address:	280 CUMBERLAND ST
Owner City,St,Zip:	BKLYN, NY 11205
Federal ID:	Not reported
Owner Tel:	(718) 237-2235
Owner Type:	Not reported
Owner Subtype:	Not reported
Mailing Contact:	Not reported
Mailing Name:	CONTINENTAL EQUITIES
Mailing Address:	280 CUMBERLAND ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BKLYN, NY 11205
Mailing Telephone:	(718) 237-2235
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	08/28/1987
Expiration:	08/28/1992
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	2500
FAMT:	True
Facility Screen:	Minor Data Missing

CONTINENTAL EQUITIES (Continued) **U003390974**

Owner Screen:	Minor Data Missing
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2
Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	2500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Tank Containment:	None
Leak Detection:	0
Overfill Protection:	4
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	Minor Data Missing
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	False
SPDES Number:	Not reported
Lat/Long:	Not reported

AL234 **CON EDISON** **NY MANIFEST** **S117315170**
West **NAVINS ST & ATLANTIC ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.244 mi.
1287 ft. **Site 1 of 3 in cluster AL**

Relative:
Lower

Actual:
36 ft.

NY MANIFEST:

EPA ID:	NYP004622973
Country:	USA
Location Address 1:	NAVINS ST & ATLANTIC ST
Location Address 2:	SERVICE BOX # 30817
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TELLING
Address:	4 IRVING PLACE-15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA

CON EDISON (Continued) **S117315170**

Phone: 212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	08/08/2014
Trans1 Recv Date:	08/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/12/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004622973
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	013254169JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

AL235 **NYNEX** **NY MANIFEST** **1009234502**
West **ATLANTIC AVE & NEVINS ST** **N/A**
1/8-1/4 **BROOKLYN, NY**
0.244 mi.
1287 ft. **Site 2 of 3 in cluster AL**

Relative:
Lower

Actual:
36 ft.

NY MANIFEST:

EPA ID:	NYP000931790
Country:	USA
Location Address 1:	ATLANTIC AVE & NEVINS ST
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYNEX
Contact:	V ORCHIER

NYNEX (Continued) **1009234502**

Address: 221 EAST 37TH STREET
City/State/Zip: NEW YORK, NY 10016
Country: USA
Phone: 212-338-7126

Manifest:

Document ID: MIA4512971
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 10/29/1996
Trans1 Recv Date: 10/29/1996
Trans2 Recv Date: 10/29/1996
TSD Site Recv Date: 11/07/1996
Part A Recv Date: / /
Part B Recv Date: 12/04/1996
Generator EPA ID: NYP000931790
Trans1 EPA ID: NYD010951986
Trans2 EPA ID: NYD046765574
TSDF ID: MID096963194
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Quantity: 02400
Units: P - Pounds
Number of Containers: 006
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100
Year: 1996

236
SE
1/8-1/4
0.245 mi.
1291 ft.

ATLANTIC TERRACE CORNERSTONE PROJECT **NY BROWNFIELDS** **S113916481**
669 ATLANTIC AVENUE **N/A**
BROOKLYN, NY 11217

Relative:
Higher

Actual:
51 ft.

BROWNFIELDS:
Program: BCP
Site Code: 374758
Acres: .350
HW Code: C224120
SWIS: 2401
Town: New York City
Update By: SRHEIGEL
Site Description: The remediation of this site is currently being proposed under the Brownfield Cleanup Program (BCP). The site is approximately 0.35 acres, located at 669 Atlantic Avenue, Borough of Brooklyn, Kings County and is part of the Atlantic Terminal Urban Renewal Area. The site is located on the northern side of Atlantic Avenue between South Oxford Street and South Portland Avenue. It occupies the entirety of a C6-1 zone that is immediately surrounded by residential (R7-2), commercial (C6-4) and manufacturing (M1-1) zones.Current use is vacant, historical records indicate that it was utilized for automotive fuel storage and dispensing purposes. The Brownfield Cleanup Agreement was terminated in 2007 at the request of the Volunteer. The Site is associated with NYSDEC spill #0103681 and #9912465.

ATLANTIC TERRACE CORNERSTONE PROJECT (Continued) **S113916481**

Env Problem: The primary contaminants of concern at the site which are known or suspected to affect the soil, groundwater and soil gas are petroleum, chlorinated solvents, SVOC's, and metals. Investigations indicate concentrations of metal and PAHs that exceed RSCOs include barium, chromium, lead (14,200 on the South side of the property), mercury (up to 3 ppm), chrysene, benzo(a)anthracene, benzo(a) pyrene, and dibenz(a,h)anthracene. VOCs (ethylbenzene, toluene, trimethlybenzene, xylenes and naphthalene), SVOCs (including naphthalene) and metals have been measured in groundwater in concentrations that exceed their respective standards. In addition, soil gas exhibited elevated concentrations of petroleum-related compounds (i.e. 2,2,4 ? Trimethlypentane concentration of 28,471 g/m3). Also, a soil gas TCE concentration of 30 g/m3 has been reported.

Health Problem: Not reported

AI237
NNW
1/8-1/4
0.245 mi.
1294 ft.

CON EDISON MANHOLE: 13754
473 HUDSON AVE OPPOSITE
BROOKLYN, NY 11201

RCRA NonGen / NLR **1016677987**
FINDS **NYP004316717**
NY MANIFEST

Site 2 of 2 in cluster AI

Relative:
Lower

Actual:
32 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/28/2013
Facility name:	CON EDISON MANHOLE: 13754
Facility address:	473 HUDSON AVE OPPOSITE BROOKLYN, NY 11201
EPA ID:	NYP004316717
Mailing address:	VING PL, RM 828 NEW YORK, NY 10003
Contact:	ANTHONY SIGNORE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(718) 666-4714
Contact email:	Not reported
EPA Region:	02
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

CON EDISON MANHOLE: 13754 (Continued) **1016677987**

Historical Generators:

Date form received by agency:	05/28/2013
Site name:	CON EDISON MANHOLE: 13754
Classification:	Conditionally Exempt Small Quantity Generator
Violation Status:	No violations found

FINDS:

Registry ID:	110058874071

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:

EPA ID:	NYP004316717
Country:	USA
Location Address 1:	OPP 471 HUDSON AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CON EDISON
Contact:	CON EDISON
Address:	4 IRVING PLACE 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-3770

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD003812047
Trans2 State ID:	Not reported
Generator Ship Date:	05/28/2013
Trans1 Recv Date:	05/28/2013
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/28/2013
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004316717
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD991291105
Waste Code:	Not reported
Quantity:	100
Units:	G - Gallons (liquids only)* (8.3 pounds)

CON EDISON MANHOLE: 13754 (Continued) **1016677987**

Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	002017469GBF
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

AF238
NW
1/8-1/4
0.245 mi.
1296 ft.

NYCTA - NEVINS STREET STATION **RCRA NonGen / NLR** **1000912514**
NEVINS ST & FLATBUSH AVE **NY0000841510**
BROOKLYN, NY 11217

Site 10 of 10 in cluster AF

Relative:
Lower

Actual:
35 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	NYCTA - NEVINS STREET STATION
Facility address:	NEVINS ST & FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NY0000841510
Mailing address:	JAY ST ROOM 809 BROOKLYN, NY 11201
Contact:	Not reported
Contact address:	JAY ST ROOM 809 BROOKLYN, NY 11201
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address:	370 JAY ST ROOM 809 BROOKLYN, NY 11201
Owner/operator country:	US
Owner/operator telephone:	(718) 330-4581
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NEW YORK CITY TRANSIT AUTHORITY
Owner/operator address:	370 JAY ST ROOM 809 BROOKLYN, NY 11201

NYCTA - NEVINS STREET STATION (Continued) **1000912514**

Owner/operator country: US
Owner/operator telephone: (718) 330-4581
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: NYCTA - NEVINS STREET STATION
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: NYCTA - NEVINS STREET STATION
Classification: Not a generator, verified

Date form received by agency: 09/27/1994
Site name: NYCTA - NEVINS STREET STATION
Classification: Small Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 09/20/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

AC239 NYCDEP NY MANIFEST 1009235672
WNW 305 SCHERMERHORN ST N/A
1/8-1/4 BROOKLYN, NY
0.246 mi.
1299 ft. Site 8 of 8 in cluster AC

Relative: Lower

Actual: 41 ft.

NY MANIFEST:

EPA ID:	NYP003661469
Country:	USA
Location Address 1:	305 SCHERMERHORN ST
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	Not reported
Location Zip Code 4:	Not reported

Mailing Info:

Name:	NYCDEP
Contact:	CHRIS HAAS
Address:	96-05 HORACE HARDING EXPRESSWA
City/State/Zip:	CORONA, NY 11368
Country:	USA
Phone:	718-595-4784

Manifest:

Document ID:	NYG3212406
Manifest Status:	Not reported
Trans1 State ID:	PC4339NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/26/2002
Trans1 Recv Date:	10/26/2002
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/01/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP003661469
Trans1 EPA ID:	NYD049178296
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049178296
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

AJ240 S & J BELT CLEANERS RCRA-CESQG 1000391367
WSW 92-17 3RD AVE FINDS NYD986979441
1/8-1/4 BROOKLYN, NY 11209 NY MANIFEST
0.247 mi.
1304 ft. Site 3 of 3 in cluster AJ

Relative: Lower

Actual: 27 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	BELT CLEANERS
Facility address:	92-17 3RD AVE BROOKLYN, NY 11209

S & J BELT CLEANERS (Continued) **1000391367**

EPA ID:	NYD986979441
Mailing address:	3RD AVE BROOKLYN, NY 11209
Contact:	Not reported
Contact address:	3RD AVE BROOKLYN, NY 11209
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	JEA CHOE
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JEA CHOE
Owner/operator address:	UNKNOWN UNKNOWN, NY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

S & J BELT CLEANERS (Continued) **1000391367**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006
Site name: BELT CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 07/08/1999
Site name: BELT CLEANERS
Classification: Not a generator, verified

Date form received by agency: 09/27/1991
Site name: BELT CLEANERS
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110019651811

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

S & J BELT CLEANERS (Continued) **1000391367**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

FIS (New York - Facility Information System) is New York's Department of Environmental Conservation (DEC) information system for tracking environmental facility information found across the State.

AIR MINOR

NY MANIFEST:

EPA ID:	NYD986979441
Country:	USA
Location Address 1:	92-17 3RD AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11209
Location Zip Code 4:	Not reported

Mailing Info:

Name:	BELT FRENCH CLNRS
Contact:	BELT FRENCH CLNRS
Address:	92-17 3RD AVENUE
City/State/Zip:	BROOKLYN, NY 11209
Country:	USA
Phone:	718-745-7364

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000564906
Trans2 State ID:	Not reported
Generator Ship Date:	10/04/2007
Trans1 Recv Date:	10/04/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/05/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	160
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	003366197JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N

S & J BELT CLEANERS (Continued) **1000391367**

Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000564906
Trans2 State ID:	Not reported
Generator Ship Date:	10/04/2007
Trans1 Recv Date:	10/04/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	10/05/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	130
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	003366197JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD000564906
Trans2 State ID:	Not reported
Generator Ship Date:	04/26/2007
Trans1 Recv Date:	04/26/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/04/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986979441

S & J BELT CLEANERS (Continued) **1000391367**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	130
Units:	P - Pounds
Number of Containers:	1
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001303488JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD000564906
Trans2 State ID:	Not reported
Generator Ship Date:	04/26/2007
Trans1 Recv Date:	04/26/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	05/04/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	160
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001303488JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported

S & J BELT CLEANERS (Continued) **1000391367**

Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H020

Document ID: NYC2660297
Manifest Status: Completed copy
Trans1 State ID: AY9381NY
Trans2 State ID: Not reported
Generator Ship Date: 11/02/1993
Trans1 Recv Date: 11/02/1993
Trans2 Recv Date: / /
TSD Site Recv Date: 11/02/1993
Part A Recv Date: 11/24/1993
Part B Recv Date: 11/15/1993
Generator EPA ID: NYD986979441
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1993

Document ID: NYC4314611
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: JE4550NY
Trans2 State ID: PAAH0346
Generator Ship Date: 11/14/1996
Trans1 Recv Date: 11/14/1996
Trans2 Recv Date: 11/19/1996
TSD Site Recv Date: 11/20/1996
Part A Recv Date: / /
Part B Recv Date: 12/12/1996
Generator EPA ID: NYD986979441
Trans1 EPA ID: ILD984908202
Trans2 EPA ID: MOD095038998
TSDF ID: OHD980587364
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 1996

Document ID: NYC4401483
Manifest Status: Completed copy
Trans1 State ID: GF2959NY
Trans2 State ID: MO001
Generator Ship Date: 12/13/1996

S & J BELT CLEANERS (Continued) **1000391367**

Trans1 Recv Date:	12/13/1996
Trans2 Recv Date:	12/17/1996
TSD Site Recv Date:	12/18/1996
Part A Recv Date:	01/15/1997
Part B Recv Date:	01/06/1997
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	MOD095038998
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4165975
Manifest Status:	Completed copy
Trans1 State ID:	NYJE45500
Trans2 State ID:	5105BGOK
Generator Ship Date:	07/02/1996
Trans1 Recv Date:	07/02/1996
Trans2 Recv Date:	07/08/1996
TSD Site Recv Date:	07/09/1996
Part A Recv Date:	07/26/1996
Part B Recv Date:	07/26/1996
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ARD981908551
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC3931470
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	AR004
Generator Ship Date:	03/12/1996
Trans1 Recv Date:	03/12/1996
Trans2 Recv Date:	03/19/1996
TSD Site Recv Date:	03/20/1996
Part A Recv Date:	03/22/1996
Part B Recv Date:	03/29/1996
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364

S & J BELT CLEANERS (Continued) **1000391367**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2580300
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/06/1993
Trans1 Recv Date:	10/06/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/06/1993
Part A Recv Date:	10/20/1993
Part B Recv Date:	10/15/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2127238
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	01/26/1993
Trans1 Recv Date:	01/26/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/26/1993
Part A Recv Date:	02/10/1993
Part B Recv Date:	02/04/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

S & J BELT CLEANERS (Continued) **1000391367**

Document ID:	NYC2177932
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	02/24/1993
Trans1 Recv Date:	02/24/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	02/24/1993
Part A Recv Date:	03/10/1993
Part B Recv Date:	03/08/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2368247
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	06/16/1993
Trans1 Recv Date:	06/16/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/16/1993
Part A Recv Date:	10/14/1993
Part B Recv Date:	06/24/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYS2580186
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	12/21/1993
Trans1 Recv Date:	12/21/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/21/1993
Part A Recv Date:	/ /

S & J BELT CLEANERS (Continued) **1000391367**

Part B Recv Date:	03/25/1994
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2308678
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	05/17/1993
Trans1 Recv Date:	05/17/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/17/1993
Part A Recv Date:	06/16/1993
Part B Recv Date:	05/25/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC4084918
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYJE4550N
Trans2 State ID:	4383AZ
Generator Ship Date:	05/08/1996
Trans1 Recv Date:	05/08/1996
Trans2 Recv Date:	05/10/1996
TSD Site Recv Date:	05/11/1996
Part A Recv Date:	05/20/1996
Part B Recv Date:	06/18/1996
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001

S & J BELT CLEANERS (Continued) **1000391367**

Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC3764621
Manifest Status:	Completed copy
Trans1 State ID:	LP3931NY
Trans2 State ID:	Not reported
Generator Ship Date:	11/21/1995
Trans1 Recv Date:	11/21/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	11/21/1995
Part A Recv Date:	/ /
Part B Recv Date:	12/11/1995
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	NYC2262183
Manifest Status:	Completed copy
Trans1 State ID:	DF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	04/19/1993
Trans1 Recv Date:	04/19/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/19/1993
Part A Recv Date:	04/30/1993
Part B Recv Date:	04/28/1993
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC4291187
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	JE4550NY

S & J BELT CLEANERS (Continued) **1000391367**

Trans2 State ID:	1EL840DK
Generator Ship Date:	09/24/1996
Trans1 Recv Date:	09/24/1996
Trans2 Recv Date:	09/27/1996
TSD Site Recv Date:	09/30/1996
Part A Recv Date:	10/07/1996
Part B Recv Date:	10/28/1996
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC3735898
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/26/1995
Trans1 Recv Date:	10/26/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/26/1995
Part A Recv Date:	11/09/1995
Part B Recv Date:	11/03/1995
Generator EPA ID:	NYD986979441
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

AL241 **CON EDISON** **NY MANIFEST** **S117315632**
West **90 NEVINS ST** **N/A**
1/8-1/4 **BROOKLYN, NY 11217**
0.249 mi.
1317 ft. **Site 3 of 3 in cluster AL**

Relative:
Lower

Actual:
35 ft.

NY MANIFEST:

EPA ID:	NYP004628202
Country:	USA
Location Address 1:	90 NEVINS ST
Location Address 2:	SB 30817
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217

CON EDISON (Continued) **S117315632**

Location Zip Code 4: Not reported

Mailing Info:

Name:	CON EDISON
Contact:	TOM TEELING
Address:	4 IRVING PLACE - 15TH FLOOR
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	Not reported

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJ0000027193
Trans2 State ID:	Not reported
Generator Ship Date:	08/14/2014
Trans1 Recv Date:	08/14/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/15/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004628202
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002200046
Waste Code:	Not reported
Quantity:	50
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	013254200JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H110

242
WNW
1/8-1/4
0.250 mi.
1318 ft.

440 STATE ST
BROOKLYN, NY 11217

EDR US Hist Auto Stat **1015496985**
N/A

Relative:
Lower

Actual:
39 ft.

EDR Historical Auto Stations:

Name:	PENSKE AUTO CENTER
Year:	2005
Address:	440 STATE ST

AM243 **FORT GREEN PL & DEKALB AV** **NY LTANKS** **S100495079**
North **FORT GREEN PL&DEKALB AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.263 mi.
1389 ft. **Site 1 of 2 in cluster AM**

Relative:
Lower

Actual:
38 ft.

LTANKS:

Site ID:	134848
Spill Number/Closed Date:	9301100 / 4/22/1993
Spill Date:	4/22/1993
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Cleanup Ceased:	4/22/1993
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	4/22/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/27/1993
Spill Record Last Update:	7/20/1993
Spiller Name:	Not reported
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NN
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	115792
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	DURING DELIV OIL LEAKED FROM TANK FILL-PIPE TO BASEMENT FLOOR.CUST MAINT PERSONNEL TOLD DRIVER THEY WOULD CLEAN SPILL-MR MCARDLE FROM COASTAL SAID THEY WOULD CHECK CUST TANK & EQUIPT ON 4/23/93

Material:

Site ID:	134848
Operable Unit ID:	982999
Operable Unit:	01
Material ID:	401830
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

FORT GREEN PL & DEKALB AV (Continued) **S100495079**

Tank Test:

AM244
North
1/4-1/2
0.265 mi.
1401 ft.

BROOKLYN HOSPITAL
121 DEKALB AVENUE
BROOKLYN, NY 11201

NY LTANKS **S106736660**
NY Spills **N/A**

Site 2 of 2 in cluster AM

Relative:
Lower

Actual:
37 ft.

LTANKS:

Site ID:	488320
Spill Number/Closed Date:	1307639 / Not Reported
Spill Date:	10/24/2013
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	AXDORONO
Referred To:	Not reported
Reported to Dept:	10/25/2013
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	10/25/2013
Spill Record Last Update:	3/18/2015
Spiller Name:	Not reported
Spiller Company:	BROOKLYN HOSP.
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	DENNIS DARTLING
Spiller Phone:	(718) 250-8136
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	215297
DEC Memo:	repair rested pending.03-18-2015 - V. BrevdoThis TTF Spill Case is transfered to Remediation Section B as per discussion with Chief of Spill Response on 03/17/2015. Case is further assigned to Ms. Ainura Doronova as Project Manager. - VB03/18/2015: This spill case was transferred to A. Doronova. - AD
Remarks:	two 4000 gal ust/failed tank test

Material:

Site ID:	488320
Operable Unit ID:	1237942
Operable Unit:	01
Material ID:	2237723
Material Code:	0001A
Material Name:	#2 Fuel Oil

BROOKLYN HOSPITAL (Continued) **S106736660**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	332075
Spill Number/Closed Date:	0407566 / 3/2/2006
Spill Date:	7/15/2004
Spill Cause:	Tank Test Failure
Spill Source:	Tank Truck
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	Con Ed Unassigned
Referred To:	Not reported
Reported to Dept:	10/7/2004
CID:	408
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/7/2004
Spill Record Last Update:	3/2/2006
Spiller Name:	PETROLEUM TANK CLEANERS
Spiller Company:	BROOKLYN HOSPITAL
Spiller Address:	121 DEKALB AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	PETROLEUM TANK CLEANERS
Spiller Phone:	(718) 624-4842
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	22710
DEC Memo:	12/19/05 Feroze. Spill is transferred from Ketani to Feroze.01/26/06. Feroze. PBS of that spill is 2-600807. Owner of that property Mr. Dennis C. Bartling 718-250-8090. TTF is sent to:Mr. Dennis C. Bartling Brooklyn Hospital Center121 Dekalb AveBrooklyn, New York 11201.02/27/06 Feroze , Mr.Dennis C. Bartling is called and a message is left for him.03/02/06 Feroze, I received a letter from Mr.Laurie Jodice. He informed that Tyree Company 631-249-3150 performed a third party tank test on 02/24/06 and the tank was found tight. They also mentioned that petrometer gage fitting was loose which they have tightened. Test result is available at Crompco. Ms. Lanrie Judis 631-249-3150 fax me the tank test result. The tank and the system passed the test. The spill is closed.
Remarks:	TEST METHOD WAS EZ3 LOCATOR PLUS.

BROOKLYN HOSPITAL (Continued) **S106736660**

Material:

Tank Test:

Site ID:	332075
Spill Tank Test:	1548223
Tank Number:	02
Tank Size:	20000
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	10/7/2004
Test Method:	Unknown

Site ID:	264146
Spill Number/Closed Date:	9909134 / 11/12/1999
Spill Date:	10/27/1999
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	10/27/1999
CID:	233
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/27/1999
Spill Record Last Update:	6/24/2003
Spiller Name:	CHARLIE TATUM
Spiller Company:	BROOKLYN HOSPITAL
Spiller Address:	121 DEKALB AVE
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	215297
DEC Memo:	Not reported
Remarks:	caller was contacted to clean spill at the above location spill was do to tank overfill clean up will begin asap

Material:

Site ID:	264146
Operable Unit ID:	1087823
Operable Unit:	01
Material ID:	563452

BROOKLYN HOSPITAL (Continued) **S106736660**

Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0912013
Facility Type:	ER
DER Facility ID:	215297
Site ID:	424874
DEC Region:	2
Spill Date:	2/15/2010
Spill Number/Closed Date:	0912013 / 2/16/2010
Spill Cause:	Unknown
Spill Class:	Not reported
SWIS:	2401
Investigator:	hrpatel
Referred To:	Not reported
Reported to Dept:	2/15/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/15/2010
Spill Record Last Update:	2/17/2010
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	DISPACTHER 260 FDNY
Contact Phone:	(347) 250-6115
DEC Memo:	02/16/10-Hiralkumar Patel. spoke with FDNY dispatcher. about 25 gal oil leaked from saddle tank on truck onto parking lot. some oil got into drain. surface spill cleaned up by FDNY. DEP was notified about oil in sewer.2:45 PM:- visited site. its a brooklyn hospital center. met Ms. Wang at Brooklyn Hosptial Center. Ms. Wang mentioned that after delivery, while moving out, truck hit plate on drain trench which punctured saddle tank. unknown amount of diesel spilled onto asphalt parking lot and into drain underneath saddle tank. surface spill was cleaned up by FDNY. hospital center hired Fleetwash who pumped out drain trench and put booms in it. no soil impact. NYC DEP

BROOKLYN HOSPITAL (Continued) **S106736660**

was notified and had inspected the site.Janet WangAssociate Director, Health & SafetyThe Brooklyn Hospital CenterPh. (718) 250-8335Fax (718) 250-6769email: jgw9002@nyp.orgJarad MatarazzoFleetwashPh. (973) 852-6348 (O) (973) 417-5072 (C)based on observations during the site visit, case closed.

Remarks: FDNY CONTACTED DEP; NO MORE INFO KNOWN. CLEAN UP UNKNOWN. *** UPDATE FD CALLED TO OBTAIN SPILL # AND ADVISES SPILL CLEAN UP UNDERWAY

Material:

Site ID:	424874
Operable Unit ID:	1180619
Operable Unit:	01
Material ID:	2174595
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0410957
Facility Type:	ER
DER Facility ID:	215297
Site ID:	336060
DEC Region:	2
Spill Date:	1/7/2005
Spill Number/Closed Date:	0410957 / 1/11/2005
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	1/7/2005
CID:	406
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/10/2005
Spill Record Last Update:	1/12/2005
Spiller Name:	JOE
Spiller Company:	JOHNS FUNERAL HOME
Spiller Address:	509 LIBERTY AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001

BROOKLYN HOSPITAL (Continued) **S106736660**

Contact Name:	ANGELO SOLIMINE
Contact Phone:	(718) 499-2900
DEC Memo:	T&S subcontracted the delivery from Castle OilCar ran over fill line. FD on site (Engine company 210) Lt William Moog says all is cleaned upMinor spill all cleaned up.
Remarks:	Herse was leaving the hospital and ran over the nozel on the hose causing the leak. Clean up is in progress. Will call back with the info on the funeral home.(spiller)***Updated 1/7/05 15:42 received the name of funeral home.****

Material:

Site ID:	336060
Operable Unit ID:	1098108
Operable Unit:	01
Material ID:	578279
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	4
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0210266
Facility Type:	ER
DER Facility ID:	215297
Site ID:	264145
DEC Region:	2
Spill Date:	1/11/2003
Spill Number/Closed Date:	0210266 / 1/13/2003
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	1/11/2003
CID:	257
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/11/2003
Spill Record Last Update:	1/13/2003
Spiller Name:	TONY STUMBO
Spiller Company:	Not reported
Spiller Address:	121 DEKALB AVE

BROOKLYN HOSPITAL (Continued) **S106736660**

Spiller City,St,Zip: BROOKLYN, NY
Spiller Company: 001
Contact Name: TONY STUMBO
Contact Phone: (718) 250-8097
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"1/11/03. J.Krimgold spoke to J. Carey (Castl Oil). Spill contained by the speedy-dry applied by the driver. No drains or sewes affected. Castl Oil completed the cleanup.
Remarks: drive was directed to the wrong tank - spill is contained

Material:
Site ID: 264145
Operable Unit ID: 861513
Operable Unit: 01
Material ID: 513656
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 15
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

AK245 **141-147 LAFAYETTE AVE.** **NY LTANKS** **S102672123**
ENE **141 LAFAYETTE AVE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.289 mi.
1525 ft. **Site 2 of 2 in cluster AK**

Relative:
Higher

Actual:
77 ft.

LTANKS:
Site ID: 325970
Spill Number/Closed Date: 9213645 / 8/31/2006
Spill Date: 7/2/1992
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: rvketani
Referred To: Not reported
Reported to Dept: 3/11/1993
CID: Not reported
Water Affected: Not reported
Spill Notifier: Affected Persons
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 3/12/1993
Spill Record Last Update: 9/5/2006
Spiller Name: Not reported

141-147 LAFAYETTE AVE. (Continued) **S102672123**

Spiller Company:	ALMAR FUEL CO.
Spiller Address:	918 MCDONALD AVE.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	262588
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"10/10/95: This is additional information about material spilled from the translation of the old spill file: 75 YDS CONTAIM SOIL.6/7/04 TIPPLE UPDATING///TRANSFERRED FROM TIBBE TO TIPPLE/// Ernesto Samuels property mgt agent (718-875-5040 ex.11) contacted. Investigation workplan to be forwarded for review. 8/30/06 - Austin - Received correspondence and 2 phtos from Alastiar James, treasurer of Lafayette Court Apartment Coop at 147c Lafayett Ave., Bronx. Letter requested closure of spill report. Reassigned from DeCandia in Albany to Ketani in Region 2 office, to review submittal and evaluate for closure. - end8/31/06 - Raphael Ketani. I spoke to Alastair James, Treasurer, Lafayette Court Apartment Coop, 147C Lafayette Avenue, Brooklyn, NY, 11238. He explained that this was a very small spill when it took place. He said it was just an overfill and only a very small area was affected - "maybe 5 by 5."Based upon my conversation with Mr. James, the pictures he has enclosed with his letter showing the that the garden has recovered, and the small (1 gal.) size of the spill, I am closing the spill case.Mr. James wrote that he would like a closure letter. I will send one out today.
Remarks:	OIL LEAKS FROM VENT TO BRICK PATHWAY & SOIL AREA & SHRUBS. ALMAR FUEL CO. RETURNED & APPLIED SPEEDI-DRI. APPROX. 1 WEEK LATER P/U & REMOVED & SAND WAS APPLIED. CHEMICAL CONSULTING CORP. TESTED SAMPLES

Material:

Site ID:	325970
Operable Unit ID:	977756
Operable Unit:	01
Material ID:	403412
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

246 SSW 1/4-1/2 0.289 mi. 1526 ft. | **SINSI RESIDENCE**
112 ST MARKS PL
BROOKLYN, NY | **NY LTANKS** | **S102673358**
N/A

Relative: Lower

Actual: 32 ft.

LTANKS:

Site ID:	208826
Spill Number/Closed Date:	9600499 / 4/11/1996
Spill Date:	4/10/1996
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	4/11/1996
CID:	297
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/11/1996
Spill Record Last Update:	4/19/2004
Spiller Name:	PETER LEPORE
Spiller Company:	WHALECO FUEL
Spiller Address:	1 COFFEE ST
Spiller City,St,Zip:	BROOKLYN, NY 11221-
Spiller County:	001
Spiller Contact:	SINSI
Spiller Phone:	(718) 789-1728
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	173238
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks:	DRIVER OVERFILLED THE FUEL TANK AND IT SPILLED OUTSIDE ONTO THE SIDEWALK - SPILL CLEANED UP WITH ABSORBANTS

Material:

Site ID:	208826
Operable Unit ID:	1028179
Operable Unit:	01
Material ID:	353894
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	Yes
Resource Affected:	Not reported
Oxygenate:	False

SINSI RESIDENCE (Continued) **S102673358**

Tank Test:

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247 WSW 1/4-1/2 0.290 mi. 1530 ft. | **ULANO CORP-280 BERGEN ST**
280 BERGEN ST
BROOKLYN, NY | **NY LTANKS** **S106534421**
NY AIRS **N/A**

Relative: Lower

Actual: 25 ft.

LTANKS:

Site ID:	247275
Spill Number/Closed Date:	9713764 / 5/18/1999
Spill Date:	3/12/1998
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	3/12/1998
CID:	370
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/12/1998
Spill Record Last Update:	4/11/2002
Spiller Name:	ABOVE CALLER
Spiller Company:	ULAMO CORP
Spiller Address:	280 BERGEN ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	ABOVE CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	203043
DEC Memo:	Not reported
Remarks:	tank test failure - will isolate and retest

Material:

Site ID:	247275
Operable Unit ID:	1056630
Operable Unit:	01
Material ID:	553358
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 247275
Spill Tank Test: 1545668
Tank Number: Not reported
Tank Size: 10000
Test Method: 14
Leak Rate: 0
Gross Fail: F
Modified By: Spills
Last Modified: 10/1/2004
Test Method: VacuTest

AIRS:
Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: Not reported
DEC Id: 2610300077
Emission Unit Id: Not reported
Process Id: Not reported
Contaminant Name/cas: Not reported
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: Not reported
Unit: Not reported
Auth Type Code: Not reported

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610300077
Emission Unit Id: UFAC01
Process Id: 00AEI
Contaminant Name/cas: PM25-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00045691
Unit: TON
Auth Type Code: Not reported

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36047
DEC Id: 2610300077
Emission Unit Id: UFAC01
Process Id: 00BEI
Contaminant Name/cas: PM25-PRI

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00067163
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440439
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0002
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440020
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0004
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.006
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	206440
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	I00001
Process Id:	LMIFP
Contaminant Name/cas:	78933
Epa Control Code:	112
Contol Eff:	95
Emissions:	70
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	I00001
Process Id:	BBIFP
Contaminant Name/cas:	78933
Epa Control Code:	112
Contol Eff:	95
Emissions:	65
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	218019
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	129000
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	110543
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.20999999
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	191242
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7440020
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.007465
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7439921
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	108883
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0004
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00058999

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Unit:	TON
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7440382
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440484
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440473
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0002
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440417

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7440382
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	71432
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0014
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	I00001
Process Id:	BBIFP
Contaminant Name/cas:	108883
Epa Control Code:	112
Contol Eff:	95
Emissions:	215
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00005
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	PM10-PRI
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00067
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7439965
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	56553
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	120127
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	50328
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	50000
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.009
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	205992
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	SO2
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.004295
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	I00001
Process Id:	LMIFP
Contaminant Name/cas:	108883
Epa Control Code:	112
Contol Eff:	95
Emissions:	215
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	71432
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0003
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7439976
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	NH3
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.07999999
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	91203
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0001
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	206440
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	NH3

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.4
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	CO
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00125
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7782492
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	NOX
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.008885
Unit:	TON
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	85018
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	7439976
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	VOC
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.00007
Unit:	TON
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7440473
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0003
Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	83329
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7782492
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	207089
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7440439
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00BEI
Contaminant Name/cas:	86737
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7440417
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7439921
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.0006
Unit:	LB
Auth Type Code:	Not reported

Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	7439965
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0

ULANO CORP-280 BERGEN ST (Continued) **S106534421**

Unit:	LB
Auth Type Code:	Not reported
Permit Type:	Not reported
Permit Status:	Not reported
Issue Date:	Not reported
Expiration Date:	Not reported
County Fips:	36047
DEC Id:	2610300077
Emission Unit Id:	UFAC01
Process Id:	00AEI
Contaminant Name/cas:	50000
Epa Control Code:	Not reported
Contol Eff:	Not reported
Emissions:	0.02
Unit:	LB
Auth Type Code:	Not reported

248
SW
1/4-1/2
0.291 mi.
1535 ft.

105 3RD AVE/BROOKLYN
105 3RD AVENUE
BROOKLYN, NY

NY LTANKS **S102672023**
NY Spills **N/A**

Relative:
Lower

Actual:
25 ft.

LTANKS:

Site ID:	327377
Spill Number/Closed Date:	9210549 / 11/12/1998
Spill Date:	12/12/1992
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	12/13/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/15/1992
Spill Record Last Update:	11/12/1998
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	101565

105 3RD AVE/BROOKLYN (Continued) **S102672023**

DEC Memo: Not reported
Remarks: BAERENKLAU OIL APPLIED SPEEDY-DRY

Material:
Site ID: 327377
Operable Unit ID: 977180
Operable Unit: 01
Material ID: 404007
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

SPILLS:
Facility ID: 9009533
Facility Type: ER
DER Facility ID: 101565
Site ID: 116745
DEC Region: 2
Spill Date: 12/3/1990
Spill Number/Closed Date: 9009533 / 12/3/1990
Spill Cause: Human Error
Spill Class: Not reported
SWIS: 2401
Investigator: FINGER
Referred To: Not reported
Reported to Dept: 12/3/1990
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Other
Cleanup Ceased: 12/3/1990
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 12/11/1990
Spill Record Last Update: 3/20/2003
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Not reported
Remarks: BAERENKLAU SPILL TEAM ENROUTE TO CLEAN UP SPILL.

105 3RD AVE/BROOKLYN (Continued) **S102672023**

Material:

Site ID:	116745
Operable Unit ID:	949952
Operable Unit:	01
Material ID:	429745
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AN249 **195 FLATBUSH AVE/BKLYN** **NY LTANKS** **S102146020**
SSE **195 FLATBUSH AVENUE** **NY Spills** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.292 mi.
1541 ft. **Site 1 of 2 in cluster AN**

Relative:
Higher

Actual:
53 ft.

LTANKS:

Site ID:	214487
Spill Number/Closed Date:	9005782 / 10/29/1990
Spill Date:	8/24/1990
Spill Cause:	Tank Overfill
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Not reported
Cleanup Ceased:	10/29/1990
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	JAMES
Referred To:	Not reported
Reported to Dept:	8/24/1990
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	11/6/1990
Spill Record Last Update:	11/7/1990
Spiller Name:	Not reported
Spiller Company:	MOBIL
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	177718
DEC Memo:	Not reported

195 FLATBUSH AVE/BKLYN (Continued) **S102146020**

Remarks: OVERFILL RESULTING IN GAS GOING DOWN SEWER.

Material:

Site ID:	214487
Operable Unit ID:	943326
Operable Unit:	01
Material ID:	433266
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	9306989
Facility Type:	ER
DER Facility ID:	177718
Site ID:	214489
DEC Region:	2
Spill Date:	9/8/1993
Spill Number/Closed Date:	9306989 / 10/19/1993
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	9/8/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	10/19/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	True
Remediation Phase:	0
Date Entered In Computer:	9/8/1993
Spill Record Last Update:	10/29/1993
Spiller Name:	Not reported
Spiller Company:	MOBIL SERV. STA.
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	NOE TEST DONE - ULLAGE PORTION FAILED AT TOP OF TANK - WILL REPAIR -

195 FLATBUSH AVE/BKLYN (Continued) **S102146020**

RETEST.

Material:

Site ID:	214489
Operable Unit ID:	988108
Operable Unit:	01
Material ID:	393270
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9307859
Facility Type:	ER
DER Facility ID:	177718
Site ID:	214491
DEC Region:	2
Spill Date:	9/27/1993
Spill Number/Closed Date:	9307859 / 10/19/1993
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	9/28/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Responsible Party
Cleanup Ceased:	10/19/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/29/1993
Spill Record Last Update:	12/22/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	LEAK DETECTOR WAS IN ALARM RAIN PROB. MADE IT FO OFF - NO LEAK. TONE TANK - PUMP - ARE THERE TO CHECK THINGS OUT - IT INVESTIGATE.

195 FLATBUSH AVE/BKLYN (Continued) **S102146020**

Material:

Site ID:	214491
Operable Unit ID:	986380
Operable Unit:	01
Material ID:	394113
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9307538
Facility Type:	ER
DER Facility ID:	177718
Site ID:	214490
DEC Region:	2
Spill Date:	9/21/1993
Spill Number/Closed Date:	9307538 / 9/22/1993
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	9/22/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Responsible Party
Cleanup Ceased:	9/22/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/23/1993
Spill Record Last Update:	12/22/2004
Spiller Name:	Not reported
Spiller Company:	MOBIL
Spiller Address:	3225 GALLONS ROAD
Spiller City,St,Zip:	FAIRFAX, VA
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	STRONG GAS ODOR IN CAN'T BE ACCOUNTED FOR FD AT SCENE. CALLED A TALK TO FIRE DEPT.BATALLION CHEIF, WHO SAID THAT ODOR HAS DISPATED BY VENTING THE BUIDING, CAN'T DETERMINE CAUSE, WILL ORDER PRESSURE TE

195 FLATBUSH AVE/BKLYN (Continued) **S102146020**

Material:

Site ID:	214490
Operable Unit ID:	986112
Operable Unit:	01
Material ID:	393797
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9008804
Facility Type:	ER
DER Facility ID:	177718
Site ID:	214488
DEC Region:	2
Spill Date:	11/10/1990
Spill Number/Closed Date:	9008804 / 11/10/1990
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	11/10/1990
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Tank Truck
Spill Notifier:	Responsible Party
Cleanup Ceased:	11/10/1990
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/7/1991
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	MOBIL
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	LOADING GASOLINE WHEN BACKED UP OUT OF VAPOR RECOVERY LINE (THINKS BECAUSE OF WATER), DRIVER MIXED GASOLINE & WATER, OWNER SAYS GAS, DRAINED TO SEWER & HOSED FULLY,NYCFD ON SCENE,FLUSHED DOWN.

Material:

Site ID:	214488

195 FLATBUSH AVE/BKLYN (Continued) **S102146020**

Operable Unit ID:	945987
Operable Unit:	01
Material ID:	432589
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	3
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AO250 **430 PACIFIC STREET** **NY LTANKS** **S108957698**
West **430 PACIFIC STREET** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.293 mi.
1547 ft. **Site 1 of 2 in cluster AO**

Relative:
Lower

Actual:
32 ft.

LTANKS:

Site ID:	388499
Spill Number/Closed Date:	0707748 / 10/15/2007
Spill Date:	10/15/2007
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	10/15/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/15/2007
Spill Record Last Update:	10/15/2007
Spiller Name:	JOHN PETRINO
Spiller Company:	Not reported
Spiller Address:	430 PACIFIC STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	JOHN PETRINO
Spiller Phone:	(718) 717-4023
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	338014
DEC Memo:	minor spill - PTC says it’s all cleaned up.
Remarks:	ABOUT 1 CUP AND ALL CLEANED UP AND HAS BEEN VACCED OUT

430 PACIFIC STREET (Continued) **S108957698**

Material:

Site ID:	388499
Operable Unit ID:	1145673
Operable Unit:	01
Material ID:	2136005
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AN251 **COMMERCIAL BUILDING** **NY LTANKS** **S106868719**
SSE **473 DEAN ST** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.298 mi.
1574 ft. **Site 2 of 2 in cluster AN**

Relative:
Higher

Actual:
54 ft.

LTANKS:

Site ID:	337764
Spill Number/Closed Date:	0412319 / 8/5/2005
Spill Date:	2/18/2005
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SXSCHARF
Referred To:	Not reported
Reported to Dept:	2/18/2005
CID:	408
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/18/2005
Spill Record Last Update:	4/4/2006
Spiller Name:	JOESPH RIZZUOT
Spiller Company:	SHEATH ENERGY
Spiller Address:	918 MCDONALD AVE.
Spiller City,St,Zip:	BROOKLYN, NY 11218
Spiller County:	001
Spiller Contact:	JOESPH RIZZUTO
Spiller Phone:	(718) 438-7953
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	273099
DEC Memo:	3/29/05 - Austin - Minor spill report, previously unassigned - closed

COMMERCIAL BUILDING (Continued) **S106868719**

in database - end August 2005; spoke to joseph Rizzuto. DEC already gave him a closure on this as his crew went to the site and cleaned up the soils that were impacted by the overfill. s. Scharf

Remarks: Driver overfilled tank. Clean up crews are on site.

Material:

Site ID:	337764
Operable Unit ID:	1099781
Operable Unit:	01
Material ID:	580026
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0703359
Facility Type:	ER
DER Facility ID:	273099
Site ID:	383274
DEC Region:	2
Spill Date:	6/6/2007
Spill Number/Closed Date:	0703359 / 12/20/2010
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RVKETANI
Referred To:	Not reported
Reported to Dept:	6/21/2007
CID:	406
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	6/21/2007
Spill Record Last Update:	12/20/2010
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	NN
Spiller Company:	999
Contact Name:	DEBBIE RABBINO BHATT

COMMERCIAL BUILDING (Continued) **S106868719**

Contact Phone: (718) 923-8400
DEC Memo: 06/22/07-Vought-Off hours responder. Vought called Frank Cherena(631-232-2600) for more information. Vought left message to return call to DEC. Vought called Debbie Bhatt and left message to return call to DEC. 07/17/07-Vought-Received message from Bhatt (718-923-8651) and returned call and left message to return call.9/1/10 - Raphael Ketani. The spill took place on 6/6/07, but was reported on 6/21/07. It consisted of an overfill of a 1,080 gal. UST. Twenty five gallons of #2 oil spilled onto the ground. Allegedly, the contaminated soil was dug up the day of the spill.The site is block and lot 1127 and 50. It was a private residence. It was sold on 9/5/06 by David Bijur of 123 7th Avenue, #216, Brklyn. to AY 473 Dean, LLC, c/o Forest City Ratner Companies, One Metrotech Center North, Brklyn, 11201.There is no paper file and there are no E-docs.Frank Cherena of ROUX Associates (631) 232-2600 was the environmental company contact. Debbie Rabbino Bhatt (718) 923-8400 was the contact for the owners. I tried calling Ms. Bhatt, but the phone number wasn't working. I did make contact with Mr. Cherena. Mr. Cherena said that ROUX did not do the cleanup themselves. He said that Ferrantino Oil was hired by the owners to do the work and came out immediately after the spill. The overfill resulted in oil coming out the vent pipe in the back and spilling onto the ground. The surface soil was removed, but end point samples weren't taken. Mr. Cherena went on to state that the building has since been demolished as part of a much large project involving Atlantic Yards. He said that this larger project involves several other sites which are all under the management of Andre Obligado of Unit B of DER. The tank is still in the ground and it will be removed, along with the contaminated soil, once the construction moves over to this part of the project. They will dig down 20 or 30 feet. The tank itself has been cleaned out and the sludge was hauled away. He said that he has the paper work for this part of the job and he will send it to me.9/2/10 - Raphael Ketani. I called up Ferrantino Fuel Corp., 176 9th Street, Brooklyn, NY, 11215. I spoke to the dispatcher, Dennis Goldstein (718) 832-6700 about the spill and the cleanup of the contaminated soil. He couldn't find it in his computer system. So he will call me back later with the information.11/23/10 - Raphael Ketani. I tried to contact Mr. Cherena of ROUX Associates (631) 232-2600 regarding the documentation for the cleaning of the fuel tank. I contacted Mr. Goldstein of Ferrantino Fuel and asked him for the documentation which indicates that the 25 gals. spill had been cleaned up. I gave him the site address, but he couldn't find it in his database. He will call me back with the information.12/9/10 - Raphael Ketani. I spoke to Mr. Goldstein again. He said that he had given the task of looking for the cleanup documentation to a worker in his office. He said that he will talk to this person and get back to me.12/14/10 - Raphael Ketani. Michael of Ferrantino Fuel called. He said that he remembered the job. He said that the overfill came out the vent and onto the soil and onto concrete. He added that Ferrantino did the entire cleanup. Michael also mentioned that two years after a new boiler was installed in the building, the owners had the building knocked down. Michael said that he will send the DEC a cover letter explaining what had happened and how the spill had been cleaned up, along with a diagram showing the spill area and a manifest for the contaminated materials that were removed. I told him that will be fine.12/17/10 - Raphael Ketani. Mr. Cherena of ROUX Associates (631) 232-2600 called and said that he had the overfill

COMMERCIAL BUILDING (Continued) **S106868719**

soil spill report and the tank cleanout and removal report for the site. He will send them to me by e-mail. Mr. Cherena sent me an e-mail later today along with three documents (see e-docs):As discussed, here are the documents that you requested, along with a synopsis of work at the above spill Site.On June 6, 2007, Ferrantino Fuel Corporation overfilled the 1,080-gallon UST at 473 Dean Street, which resulted in the release of approximately 25 gallons of #2 fuel oil to soil located adjacent to the fill port of the UST. Ferrantino applied 10 bags of absorbent powder to soak up the released #2 fuel oil. Subsequently, one fifty-five gallon drum of waste (soil and oil-soaked absorbent powder) was removed from around the spill area and was transported to American Biomass located in Waterboro, South Carolina for proper disposal (Attachment 1). The proximity of the UST to the building prevented its removal prior to the building demolition; and therefore, in June 2010, ABC Tank Repair & Lining was contracted by Ferrantino to pump out and scrape clean the interior of the UST in order to prepare the site for demolition (Attachment 2). Following demolition of the building (August - September 2010), Roux Associates contracted Brookside Environmental to complete the cleanup and removal of the UST. Brookside Environmental removed the UST from ground, accessed the tank interior for cleaning, and removed 2 drums of sludge/sediment for offsite disposal in October 2010. Following completion of this work, Brookside Environmental issued an New York City Fire Department Affidavit certifying final cleanout and removal of the UST. Copies of all manifests and affidavits associated with the work completed by Brookside Environmental are provided in Attachment 3. The tank was then removed off-site for scrap disposal by Breeze Demolition (Demo Contractors). Following removal of the tank, no visual soil contamination was observed in this area.12/20/10 - Raphael Ketani. I reviewed the letters that Mr. Cherena had sent regarding the cleanup of the overfill in 2007 and the removal of the 1080 gal. fuel tank and the removal of the replacement 1000 gal. As the 06/18/07 Ferrantino letter and manifest indicated that the spill had been cleaned up, and as the ABC Tank and Brookside Environmental letters indicated that the two tanks had been removed, I have determined that the oil contamination had been successfully removed. Therefore, there is no threat to the public or the environment. So, I am closing the spill case.

Remarks: Tank overfill on a 1080gal. UST.... impacted soil. One 55gal. drum of contaminated soil and absorbents were removed from the site. Clean up was believed to have been done that same day 6/6/07.

Material:

Site ID:	383274
Operable Unit ID:	1140642
Operable Unit:	01
Material ID:	2130727
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	25
Units:	Gallons
Recovered:	25
Resource Affected:	Not reported
Oxygenate:	False

COMMERCIAL BUILDING (Continued) **S106868719**

Tank Test:

Site ID:	383274
Spill Tank Test:	1550933
Tank Number:	1
Tank Size:	1080
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	RVKETANI
Last Modified:	9/1/2010
Test Method:	Unknown

AO252 **438-440 ATLANTIC AVENUE** **NY LTANKS** **S104276725**
West **438-440 ATLANTIC AVENUE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.305 mi.
1608 ft. **Site 2 of 2 in cluster AO**

Relative:
Lower

Actual:
35 ft.

LTANKS:

Site ID:	234831
Spill Number/Closed Date:	9514297 / 2/9/1996
Spill Date:	2/9/1996
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2/9/1996
CID:	205
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/9/1996
Spill Record Last Update:	2/21/1996
Spiller Name:	FRANK ODONNELL
Spiller Company:	BAERENKLAU OIL CO
Spiller Address:	740 JAMACA AVE
Spiller City,St,Zip:	BROOKLYN, NY 11208-
Spiller County:	001
Spiller Contact:	BROOKLYN RESTORATION INC.
Spiller Phone:	(718) 891-8300
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	193432
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"CLEAN-UP BY THE SPILLER
Remarks:	overfilled tank.

438-440 ATLANTIC AVENUE (Continued) **S104276725**

Material:

Site ID:	234831
Operable Unit ID:	1025114
Operable Unit:	01
Material ID:	354427
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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253 East 1/4-1/2 0.312 mi. 1647 ft.

CARLTON NURSING HOME INC.
405 CARLTON AVENUE
BROOKLYN, NY 11238

NY LTANKS **U003389477**
NY HIST AST **N/A**
NY Spills

Relative: Higher

Actual: 78 ft.

LTANKS:

Site ID:	206800
Spill Number/Closed Date:	0209163 / 6/6/2006
Spill Date:	12/6/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	kxgupta
Referred To:	Not reported
Reported to Dept:	12/6/2002
CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/6/2002
Spill Record Last Update:	6/6/2006
Spiller Name:	GARY LIEBERMAN
Spiller Company:	CARLTON NURSING HOME
Spiller Address:	405 CARLTON AV
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	GARY LIEBERMAN
Spiller Phone:	(718) 789-5241
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	171674

CARLTON NURSING HOME INC. (Continued) **U003389477**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE/DO"12/6/02 - AUSTIN, DDO - TTF LETTER WILL BE SENTADDRESS/FAX FOR GARY LIEBERMAN - 405 CARLTON AVE., BROOKLYN 11238 - (F) 718-789-22006/6/06 - Mike - Talked to Lieberman who faxed over info on a second test which passed on the tank. Upon questioning I do not think that there was any spill. Pro Test did not mention any signs of contamination, believe this spill can be closed.
Remarks: Not reported

Material:
Site ID: 206800
Operable Unit ID: 860598
Operable Unit: 01
Material ID: 516142
Material Code: 0002A
Material Name: #4 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 206800
Spill Tank Test: 1527792
Tank Number: 1
Tank Size: 4500
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

HIST AST:
PBS Number: 2-318906
SWIS Code: 6101
Operator: EISMOKE ADM
Facility Phone: (718) 789-6262
Facility Addr2: 405 CARLTON AVE
Facility Type: OTHER
Emergency: L. CORTES
Emergency Tel: (718) 789-3469
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: CARLTON NURSING HOME INC.
Owner Address: 405 CARLTON AVENUE
Owner City,St,Zip: BROOKLYN, NY 11238
Federal ID: Not reported
Owner Tel: (718) 789-6262
Owner Type: Corporate/Commercial

CARLTON NURSING HOME INC. (Continued) **U003389477**

Owner Subtype:	Not reported
Mailing Contact:	E. SMOKE
Mailing Name:	CARLTON NURSING HOME INC.
Mailing Address:	405 CARLTON AVENUE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	BROOKLYN, NY 11238
Mailing Telephone:	(718) 789-6262
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag:	False
Certification Date:	10/23/1996
Expiration:	01/13/2002
Renew Flag:	False
Renew Date:	Not reported
Total Capacity:	4500
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	No Missing Data
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City Code:	01
Region:	2

Tank ID:	001
Tank Location:	ABOVEGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (Gal):	4500
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	0
Tank External:	01
Pipe Location:	Aboveground
Pipe Type:	STEEL/IRON
Pipe Internal:	None
Pipe External:	00
Tank Containment:	Diking
Leak Detection:	00
Overfill Protection:	46
Dispenser Method:	Suction
Date Tested:	Not reported
Next Test Date:	Not reported
Missing Data for Tank:	No Missing Data
Date Closed:	Not reported
Test Method:	Not reported
Deleted:	False
Updated:	True
SPDES Number:	Not reported
Lat/Long:	Not reported

SPILLS:

Facility ID:	0912601

CARLTON NURSING HOME INC. (Continued) **U003389477**

Facility Type:	ER
DER Facility ID:	171674
Site ID:	425502
DEC Region:	2
Spill Date:	3/3/2010
Spill Number/Closed Date:	0912601 / 6/14/2010
Spill Cause:	Equipment Failure
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	3/3/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/3/2010
Spill Record Last Update:	6/14/2010
Spiller Name:	Not reported
Spiller Company:	PETRO
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	KENNY BECHT
Contact Phone:	(718) 628-3343
DEC Memo:	03/03/10- Zhune spoke to Diane from Petro. She said I told not to contact me call Benny 718-789-6262. 03/03/10- Zhune spoke to Scott from Petro. He said they called Petro for sevice after driver left they noticed spill in the tank room. The fill line which is under the sidewalk broke. spill is aproximatelly 20 gallons in the tank room in the basement. Floor is cement floor.Petro contained the spill with speedy-dry. They will removed the oil with the speedy dry and put it in bags. As per Benny there is not vapors in the buildings. No vapors in first floor The Environmental cleanup company will come tomorrow to continue with the cleanup.Administrator-ary Liberman 718-789-626203/3/10. Hassan responded. 6/14/2010- DEC Piper received closure report. No cracks or drains affected. Six yards of debris and speedy dry were removed. Borings through floor were non detect. Area powerwashed and vaccuumed. Closed. See edocs if warranted.
Remarks:	unknown amount spill - cleanup pending - on concrete - also contact owner of building - BENNY - (718)789-6262 IN REGARDS TO GET INFO FOR PROPERTY

Material:

Site ID:	425502
Operable Unit ID:	1181220
Operable Unit:	01
Material ID:	2175289
Material Code:	0002A
Material Name:	#4 Fuel Oil

CARLTON NURSING HOME INC. (Continued) **U003389477**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0912868
Facility Type:	ER
DER Facility ID:	171674
Site ID:	425781
DEC Region:	2
Spill Date:	3/11/2010
Spill Number/Closed Date:	0912868 / 3/11/2010
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	3/11/2010
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/11/2010
Spill Record Last Update:	3/11/2010
Spiller Name:	RENEE LEWIS
Spiller Company:	CARLTON NURSING HOME
Spiller Address:	405 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	RENEE LEWIS
Contact Phone:	(917) 299-9302
DEC Memo:	See spill 0912601Discovered tank is leaking and will be pumped. Consolidated to other spill occuruing on 3/3/10.
Remarks:	interior; contained. clean up pending.

Material:

Site ID:	425781
Operable Unit ID:	1181491
Operable Unit:	01
Material ID:	2175603
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum

CARLTON NURSING HOME INC. (Continued) **U003389477**

Quantity:	10
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1011048
Facility Type:	ER
DER Facility ID:	171674
Site ID:	444671
DEC Region:	2
Spill Date:	1/31/2011
Spill Number/Closed Date:	1011048 / 2/18/2011
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	2/1/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2/1/2011
Spill Record Last Update:	6/29/2011
Spiller Name:	BENJAMIN RAMOS
Spiller Company:	CARLTON REHAB CENTER
Spiller Address:	405 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	BENJAMIN RAMOS
Contact Phone:	(718) 789-6262
DEC Memo:	DEC Piper spoke with PAul at Milro. Milro was kicked off job. They were called in to due to oil water seeping in though wall where fill enters building. The tank room is filled with unknown amount of oil and water. Petro said they were going to take care of it and it was less than 3 gal of oil though it doesnt explain why water is present. The story is awkward. DEC Zhune to respond.02/01/11-Zhune responded to this site. Spoke to Benjamin Ramos 718-789-6262(Maintenance) and Gary Liebermen (Administrator) The fill line is leaking inside the builging in a former tank room. Aproximatelly 3 gallons of # 2 fuel oil on the concrete floor of the former tank room. There is a sump in this room but is closed. Spill is under contol. Petro is going to replace the line and clean the spill. 02/18/11 Gary Lieberman Administrator from New Carlton Rehabilitation Nursing Center sent the following e-mail: This is to verify our phone communication this morning. The Oil spill that we spoke about earlier today was immediately cleaned up. It was not a lot of oil and there was no

CARLTON NURSING HOME INC. (Continued) **U003389477**

seepage into the ground. The corroded pipe from the street that caused this small spill was replaced by our oil company (Petro). It was Petro who responded immediately to our call and performed the clean up. Spill Closed.

Remarks: Fuel Oil spill due to leaky a leaky pipie. Filled bt petro yesterday. Unknown amt spilled and recovered.

Material:

Site ID:	444671
Operable Unit ID:	1195116
Operable Unit:	01
Material ID:	2191109
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	444671
Operable Unit ID:	1195116
Operable Unit:	01
Material ID:	2191110
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AP254 **ENGINE CO. 219/LADD. CO. 105 FDNY -DDC** **NY LTANKS** **S105055050**
SSE **494 DEAN STREET** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.335 mi.
1771 ft. **Site 1 of 2 in cluster AP**

Relative:
Higher

Actual:
57 ft.

LTANKS:

Site ID:	240961
Spill Number/Closed Date:	0102628 / 7/29/2011
Spill Date:	6/8/2001
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	NFA
Reported to Dept:	6/8/2001

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

CID:	211
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/8/2001
Spill Record Last Update:	7/29/2011
Spiller Name:	TONY C
Spiller Company:	NYFD ENG 219
Spiller Address:	494 DEAN ST
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	TONY C
Spiller Phone:	(516) 938-5476
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	270534
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"There was a second spill number which was closed for this same event: See notes on spill #0109974Gregory Suhr of Fenley & Nicol said there was a gross failure of the Tank test. 600 gal in tank. Probably leaking to the soil.Tony Caggiano of Liro says tank will be pulled "soon"11-08-2005 The site was handled under DDC CO. J. Kolleeny was a PM for the site. This spill was under S. Sangesland name. See spill 9705043. AZ1-19-2006 There was a heating oil spill at the site which was never investigated. DDC refused to investigate the site under the existing contract but stated that the site will be investigated under the future contract. Site should be investigated as soon as new contract is in place. AZ4-11-2006 The site was reclassified as P0 as per Koon Tang request. AZ8-6-2010 Received SSIP prepared by LiRo on July 20, 2010. Discussed the site with S. Frank on 8-5-2010. Requested that 2 wells and 3 borings be installed around the tank. LiRo originally proposed 4 borings and 1 well. If soil is contaminated all borings should be converted into wells. The plan is approved. AZ8-10-2010 Received an e-mail from S. Frank (LiRo):"Alex,Thank you for your quick response to our SSIP submitted for the EC 219 heating oil tank spill. As we discussed during our phone conversation on August 5th, LiRo will add at least one more monitoring well to the boring/well program. If field screening results indicate contamination at other locations, LiRo will install additional wells. LiRo understands that additional wells may be required if laboratory analytical results indicate elevated contaminant levels at locations that were expected to be clean based on field screening results. LiRo will collect a minimum of two soil samples at each location for laboratory analysis. Deep borings will be sampled at the high PID interval and at the water table. Please call or email back if you have any additional questions or concerns."AZ7-29-2011 Reviewed the Investigation Report dated January 7, 2011, and received on July 15, 2011. The following e-mail was sent to S. Frank/F. Ashkan/V. Brevdo:"I have reviewed the Investigation Report dated January 7, 2011, and received on July 15, 2011. The report stated that the spill report was filed when 3,000 gal heating oil UST failed the tightness testing. The tank was closed in place in 2002 but not replaced. DEC approved the SSIP for this site on August 5, 2010. LiRo finished the field work in October 2010. Only one well

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

out of two wells planned could be installed due to difficult drilling conditions. Five soil borings were advanced. None of the collected soil samples exhibited contamination. Groundwater sample was collected and the analytical results for VOC/SVOC were non-detect.Based on the documentation provided to date, spill case 0102628 has been closed. All monitoring wells associated with this project should be closed according to the Department's "Groundwater Monitoring Well Decommissioning Procedures". The Department hereby reserves all of its rights concerning, and such forbearance shall not extend to, any further investigation or remedial action the Department deems necessary due to:I. The off-site migration of petroleum contaminants that was not addressed by this evaluation.II. Environmental conditions related to the Site which were unknown to the Department at the time of this approval.III. Information received, in whole or in part, after the Department's spill case closure, which indicates that the corrective action was not sufficiently protective of human health for the reasonably anticipated use(s) of the site; of the site; or IV. Fraud in obtaining this approval for inactivation.Please be advised that you should maintain a permanent file of all documentation and correspondence regarding this case for future use. The Department's files regarding this release may not be maintained indefinitely." AZ

Remarks: DRY ULLAGE

Material:

Site ID:	240961
Operable Unit ID:	839316
Operable Unit:	01
Material ID:	534739
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	240961
Spill Tank Test:	1526362
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

Site ID:	240962
Spill Number/Closed Date:	0109974 / 4/30/2004
Spill Date:	1/16/2002
Spill Cause:	Tank Test Failure

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	ADZHITOM
Referred To:	Not reported
Reported to Dept:	1/16/2002
CID:	397
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/16/2002
Spill Record Last Update:	12/20/2004
Spiller Name:	MCHALE ALISHILER
Spiller Company:	NYC FD STATION ENG 219
Spiller Address:	494 DEAN ST
Spiller City,St,Zip:	BROOKLYN, ZZ
Spiller County:	001
Spiller Contact:	MCHALE ALISHILER
Spiller Phone:	(718) 784-6568
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	270534
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"ACCORDING TO GREGORY SUHR OF FENLEY & NICOL, THIS WAS A GROSS TT FAILURE; TANK HAS ABOUT 600 GALLONS LEFT IN IT, AND PRODUCT IS VERY LIKELY LEAKING OUT INTO THE SOIL. TONY CAGGIANO OF LIRO TOLD SUHR "NOT TO WORRY ABOUT IT; LIRO IS PULLING AND REPLACING THE TANK NEXT WEEK." THE TANK IS USED TO PROVIDE HEAT AND TO POWER THE EMERGENCY GENERATOR.duplicate spill- ref to Spill #0102628
Remarks:	TANK TEST FAILURE

Material:

Site ID:	240962
Operable Unit ID:	847088
Operable Unit:	01
Material ID:	527610
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	240962
Spill Tank Test:	1526814
Tank Number:	1

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

SPILLS:

Facility ID:	9705043
Facility Type:	ER
DER Facility ID:	270534
Site ID:	85985
DEC Region:	2
Spill Date:	7/28/1997
Spill Number/Closed Date:	9705043 / 1/14/2005
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	7/28/1997
CID:	351
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/28/1997
Spill Record Last Update:	1/14/2005
Spiller Name:	TONY MARINO
Spiller Company:	NYC
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	NYC DEPT OF DESIGN & CONS
Contact Phone:	(718) 391-1062
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"The spill is referred to spill # 0102628 and is closed in consultation with Alex and JK. - II (01/14/05).
Remarks:	CALLER RECEIVED ANALYTICAL RESULTS FROM SOIL SAMPLES TAKEN AT SITE AND THE RESULTS INDICATE CONTAMINATION

Material:

Site ID:	85985
Operable Unit ID:	1050919
Operable Unit:	01
Material ID:	334268
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported

ENGINE CO. 219/LADD. CO. 105 FDNY -DDC (Continued) **S105055050**

Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

255
SW
1/4-1/2
0.344 mi.
1816 ft.

Relative:
Lower

Actual:
23 ft.

WYCKOFF CONSOLIDATED -NYCHA **NY LTANKS** **S102233327**
572 WARREN ST **NY Spills** **N/A**
BROOKLYN, NY

LTANKS:

Site ID:	115495
Spill Number/Closed Date:	9105220 / 3/8/2005
Spill Date:	8/14/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	8/14/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/9/1991
Spill Record Last Update:	3/8/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	100643
DEC Memo:	Closed to consolidate; refer to open spill number 9602519. - J. Kolleeny 3/8/05.
Remarks:	GROSS LEAK

Material:

Site ID:	115495
Operable Unit ID:	959405
Operable Unit:	01

WYCKOFF CONSOLIDATED -NYCHA (Continued) **S102233327**

Material ID:	421029
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	115495
Spill Tank Test:	1538899
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	9602519
Facility Type:	ER
DER Facility ID:	100643
Site ID:	115496
DEC Region:	2
Spill Date:	5/22/1996
Spill Number/Closed Date:	9602519 / Not Reported
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	MULTI SITE STIP, SIR DUE 3/14/15
Reported to Dept:	5/22/1996
CID:	365
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	5/22/1996
Spill Record Last Update:	12/30/2014
Spiller Name:	FRANK OCELLO
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY 10007-
Spiller Company:	001

WYCKOFF CONSOLIDATED -NYCHA (Continued) **S102233327**

Contact Name:	CALLER
Contact Phone:	(718) 439-3135
DEC Memo:	12/14/05: This spill transferred from J.Kolleeny to S.Kraszewski.03/14/06: This spill reassigned to K.Tang. - SK12/3/07: J.Kann - spill reassigned to J.Kann. Investigative Work Plan submitted on 11/5/07.5/25/12: J.kann - spill priority assigned as P0 as a part of monthly reporting.7/22/14: J.Kann - reviewed work plan. 3 permanent wells should be installed. Comments sent to NYCHA in an email today.12/30/14: J.Kann - part of multi site stip. SIR due 3/14/15
Remarks:	removing a 10,000 gallon heating oil tank. under the tank there was some trapped water that had a petroleum sheen on it. less than 10 gallons are visible.

Material:

Site ID:	115496
Operable Unit ID:	1033968
Operable Unit:	01
Material ID:	352337
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AQ256 **WYCKOFF GARDENS -NYCHA** **NY LTANKS** **S100146694**
WSW **272 WYCKOFF STREET** **N/A**
1/4-1/2 **NEW YORK CITY, NY**
0.348 mi.
1837 ft. **Site 1 of 3 in cluster AQ**

Relative:
Lower

Actual:
21 ft.

LTANKS:

Site ID:	145838
Spill Number/Closed Date:	9010808 / 1/8/2004
Spill Date:	1/9/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	1/9/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False

WYCKOFF GARDENS -NYCHA (Continued) **S100146694**

Remediation Phase:	0
Date Entered In Computer:	1/16/1991
Spill Record Last Update:	3/4/2005
Spiller Name:	Not reported
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY 10007-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	124226
DEC Memo:	Not reported
Remarks:	(2) 25K TANKS FAILED HORNER EZY CHECK WITH A VISUAL LEAK AT TOP OF TANK,TO REPAIR & RETEST. See 9307448.

Material:

Site ID:	145838
Operable Unit ID:	951021
Operable Unit:	01
Material ID:	430923
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	145838
Spill Tank Test:	1538140
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown
Site ID:	145838
Spill Tank Test:	1538141
Tank Number:	002
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

AQ257 **WYCKOFF GARDENS** **NY LTANKS** **S104283696**
WSW **185 NEVINS ST** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.358 mi.
1888 ft. **Site 2 of 3 in cluster AQ**

Relative:
Lower

Actual:
20 ft.

LTANKS:

Site ID:	237645
Spill Number/Closed Date:	9811464 / 5/14/1999
Spill Date:	12/11/1998
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	12/11/1998
CID:	365
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/11/1998
Spill Record Last Update:	5/14/1999
Spiller Name:	FRANK OCELLO
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY 10007-
Spiller County:	001
Spiller Contact:	FRANK OCELLO
Spiller Phone:	(212) 306-3229
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	195738
DEC Memo:	Not reported
Remarks:	FAILURE OF HORNER EZ 3 TANK TEST

Material:

Site ID:	237645
Operable Unit ID:	1068845
Operable Unit:	01
Material ID:	311761
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

WYCKOFF GARDENS (Continued) **S104283696**

Site ID:	237645
Spill Tank Test:	1546630
Tank Number:	2
Tank Size:	25000
Test Method:	03
Leak Rate:	0
Gross Fail:	F
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

AQ258 **WYCKOFF HOUSING -NYCHA** **NY LTANKS** **S100781767**
WSW **272 WYCKOFF STREET** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.358 mi.
1888 ft. **Site 3 of 3 in cluster AQ**

Relative:
Lower

Actual:
20 ft.

LTANKS:

Site ID:	145839
Spill Number/Closed Date:	9307448 / 1/8/2004
Spill Date:	9/20/1993
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JAKOLLEE
Referred To:	Not reported
Reported to Dept:	9/20/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/21/1993
Spill Record Last Update:	1/12/2009
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	118683
DEC Memo:	Not reported
Remarks:	VISUAL LEAKS AT TOP OF TANK. EMPTY TANK - PRESSURE TEST, GAS LEAK & ULTRA SOUND TESTED.

Material:

Site ID:	145839

WYCKOFF HOUSING -NYCHA (Continued) **S100781767**

Operable Unit ID:	988530
Operable Unit:	01
Material ID:	393709
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	145839
Spill Tank Test:	1542005
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	9909440
Facility Type:	ER
DER Facility ID:	118683
Site ID:	138815
DEC Region:	2
Spill Date:	11/3/1999
Spill Number/Closed Date:	9909440 / Not Reported
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	jkkann
Referred To:	NYCHA TO PREPARE WP
Reported to Dept:	11/3/1999
CID:	382
Water Affected:	Not reported
Spill Source:	Private Dwelling
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	11/3/1999
Spill Record Last Update:	5/18/2012
Spiller Name:	CALLER
Spiller Company:	NYC HOUSING
Spiller Address:	250 BROADWAY

WYCKOFF HOUSING -NYCHA (Continued) **S100781767**

Spiller City,St,Zip:	NY, NY
Spiller Company:	001
Contact Name:	ED MALONE
Contact Phone:	(212) 306-8480
DEC Memo:	11/28/05: This spill transferred from J.Kolleeny to S.Kraszewski.07/17/06: NYCHA update summary states that two 25K tanks installed in December 1966 were replaced by one 15K tank installed in December 1999. Contaminated soil was encountered during the tank replacement. A.L. Eastmond performed GW sampling that show no exceedances but the soil conditions remain unknown. NYCHA recommends a round of soil borings in the tank farm area. - SK02/08/07 : DEC lead changed from S. Kraszewski to J. Kann. J.Kann
Remarks:	contaminated soil found during the removal of 1 25,000 gal tank. excavation and replacement of tank

Material:

Site ID:	138815
Operable Unit ID:	1084044
Operable Unit:	01
Material ID:	298527
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

259
ESE
1/4-1/2
0.370 mi.
1953 ft.

487 CARLTON AVE
487 CARLTON AVE
BROOKLYN, NY

NY LTANKS **S102673219**
NY Spills **N/A**

Relative:
Higher

Actual:
64 ft.

LTANKS:

Site ID:	250505
Spill Number/Closed Date:	9513597 / 2/1/1996
Spill Date:	1/26/1996
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1/26/1996
CID:	282
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False

487 CARLTON AVE (Continued) **S102673219**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/26/1996
Spill Record Last Update:	11/7/2005
Spiller Name:	FRANK OCELLO
Spiller Company:	SAME
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	001
Spiller Contact:	FF DEMAO
Spiller Phone:	(917) 769-0483
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Not reported
Remarks:	the oil delivery company made a delivery for a certain amount and the tank was overfilled by 36 gallons.spill went into a catch basin.housing authority is on the scene.apartment complex.apparently the oil company was told the wrong amount to pump into the tank.

Material:

Site ID:	250505
Operable Unit ID:	1028081
Operable Unit:	01
Material ID:	357313
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	146593
Spill Number/Closed Date:	9010635 / 9/8/1994
Spill Date:	1/4/1991
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	9/8/1994
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	HEALY
Referred To:	Not reported
Reported to Dept:	1/4/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

487 CARLTON AVE (Continued) **S102673219**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/9/1991
Spill Record Last Update:	12/23/2005
Spiller Name:	Not reported
Spiller Company:	NYCHA
Spiller Address:	250 BROADWAY
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Not reported
Remarks:	20K TANK FAILED HORNER EZY CHECK WITH A VISUAL LEAK, MANWAY LEAKING,TO REPAIR & RETEST.

Material:

Site ID:	146593
Operable Unit ID:	950891
Operable Unit:	01
Material ID:	430776
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	146593
Spill Tank Test:	1538126
Tank Number:	001
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

Site ID:	63178
Spill Number/Closed Date:	0201138 / Not Reported
Spill Date:	4/30/2002
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401

487 CARLTON AVE (Continued) **S102673219**

Investigator:	jkkann
Referred To:	SIR RCVD 3/4/14
Reported to Dept:	4/30/2002
CID:	281
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	4/30/2002
Spill Record Last Update:	6/13/2014
Spiller Name:	SEBASTIAN LOREFICE
Spiller Company:	NYC HOUSING AUTHORITY
Spiller Address:	23-02 49TH AVE
Spiller City,St,Zip:	LONG ISLAND CITY, NY 11011-
Spiller County:	001
Spiller Contact:	MARIO MANDALONE
Spiller Phone:	(718) 707-7841
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	61096
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KOLLEENY"HOUSING AUTHORITY WILL NOTIFY KOLLEENY OF DEC BEFORE RE-TEST.11/07/05: This spill transferred from J.Kolleeny to S.Kraszewski.12/23/05: Tank has been removed and replaced (2004.) No tank closure assessment performed. - SK07/07/06: NYCHA summary report states no recovery system and no MWs on-site. A site assessment is available and NYCHA recommends the Department review it. - SK02/06/07 - J.Kann - site reassigned from S. Kraszewski to J.Kann.7/22/10: J.kann - investigation work plan received on 7/15/10.12/27/12: J.Kann - reviewed IWP. Emailed NYCHA requesting that the SAR referenced in the IWP be submitted for review before comments can be finalized on the IWP. 1/14/13: J.Kann - comments on the IWP sent to NYCHA on 1/9/13.3/4/13: J.Kann - An addendum to the Work Plan and a revised Figure was received on February 27, 2013. The addendum and the revised figure were reviewed and the IWP with addendum approved on March 4, 2013. The SIR is due September 4, 2013.1/28/14: J.Kann - a modification was approved to the SIR and edoced.3/4/14: J.Kann - SIR received.3/20/14: J.Kann - looked briefly at report. No groundwater sample collected at SB-3 as discussed (see email from 1/28). Spoke to Steve of JCB earlier this month and pointed that out to him. He said he would get back to me with a response.6/13/14: J.Kann - sent an email to NYCHA indicating that a gw sample was supposed to be collected at the SB-3 location and was not. This information is necessary to consider the investigation complete and review the site for closure.
Remarks:	TANK TEST FAILURE AT ABOVE LOCATION. TANK TO BE ISOLATED AND RETESTED. Not reported

Material:

Site ID:	63178
Operable Unit ID:	852133
Operable Unit:	01
Material ID:	522561
Material Code:	0001A
Material Name:	#2 Fuel Oil

487 CARLTON AVE (Continued) **S102673219**

Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	63178
Spill Tank Test:	1527089
Tank Number:	1
Tank Size:	20000
Test Method:	03
Leak Rate:	0
Gross Fail:	F
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

SPILLS:

Facility ID:	0100292
Facility Type:	ER
DER Facility ID:	61096
Site ID:	250503
DEC Region:	2
Spill Date:	4/9/2001
Spill Number/Closed Date:	0100292 / 3/25/2003
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	4/9/2001
CID:	281
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/9/2001
Spill Record Last Update:	11/7/2005
Spiller Name:	OWEN JACKSON
Spiller Company:	ACS SYSTEM ASSOCIATES
Spiller Address:	329 MILLER LANE
Spiller City,St,Zip:	MT VERNON, NY 10550
Spiller Company:	001
Contact Name:	GEORGE GARBER
Contact Phone:	(718) 638-0505
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was

487 CARLTON AVE (Continued) **S102673219**

	"DEMEO"ACCORDING TO NYCHA, ABOUT 10 GALLONS OF OIL SPILLED ONTO PARKING LOT PAVEMENT DUE TO DEFECTIVE SUPPLY LINE GAUGE ON PORTABLE BOILER. SPILL CLEANED BY A.L. EASTMOND WITH ABSORBENTS, AFFECTED AREA POWER WASHED AND WASTEWATER VACUUMED UP. EASTMOND REMOVED 3 DRUMS OF OIL-CONTAMINATED WASTE. DEFECTIVE GAUGE REPLACED.OK TO CLOSE.
Remarks:	BROKEN GAUGE ON PUMP ON BOILER AT ABOVE LOCATION. REPAIRS HAVEBEEN MADE AND CLEANUP IS IN PROGRESS. ALL MATERIAL EXPECTED TOBE RECOVERED.
	Not reported

Material:

Site ID:	250503
Operable Unit ID:	838857
Operable Unit:	01
Material ID:	539559
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	10
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9510553
Facility Type:	ER
DER Facility ID:	205330
Site ID:	250504
DEC Region:	2
Spill Date:	11/21/1995
Spill Number/Closed Date:	9510553 / 11/24/1995
Spill Cause:	Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MMMULQUE
Referred To:	Not reported
Reported to Dept:	11/21/1995
CID:	267
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Fire Department
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/21/1995
Spill Record Last Update:	12/7/1995
Spiller Name:	FF DEMAO
Spiller Company:	Not reported
Spiller Address:	487 CARLTON AVE
Spiller City,St,Zip:	BROOKLYN, NY

487 CARLTON AVE (Continued) **S102673219**

Spiller Company:	001
Contact Name:	FF DEMAO
Contact Phone:	(917) 769-0483
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"Was a household trash fire in front of pojects. Refuse being cleaned up by Housing Authority Personnel.
Remarks:	FIREFIGHTERS RESPONDED TO A RUBBISH FIRE AND NOTICED A TOXIC SMELL COMING FROM SOME PLASTIC BURNING MAY HAVE GONE INTO SEWERSRUNOFF WATER HAS A PH OF 14 DEP IS ENROUTE AND WILL WORK WITH FDON THE CLEAN UP ABOUT 40 GALS IN ALL FIRE WAS ON THE STREET NO BUILDINGS INVOLVED

Material:

Site ID:	250504
Operable Unit ID:	1025048
Operable Unit:	01
Material ID:	357916
Material Code:	0063A
Material Name:	UNKNOWN HAZARDOUS MATERIAL
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	40
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AP260 **PETER F REILLY STORAGE INC** **NY LTANKS** **U001832434**
SSE **491 BERGEN ST** **NY UST** **N/A**
1/4-1/2 **BROOKLYN, NY 11217** **NY HIST UST**
0.379 mi.
1999 ft. **Site 2 of 2 in cluster AP**

Relative:
Higher

Actual:
62 ft.

LTANKS:

Site ID:	375995
Spill Number/Closed Date:	0611363 / 2/15/2007
Spill Date:	1/12/2007
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	BKFALVEY
Referred To:	Not reported
Reported to Dept:	1/12/2007
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/12/2007
Spill Record Last Update:	2/15/2007

PETER F REILLY STORAGE INC (Continued) **U001832434**

Spiller Name:	LORETTA MCFARLAND
Spiller Company:	SOFIA BROS
Spiller Address:	491 BERGEN STREET
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	LORETTA MCFARLAND
Spiller Phone:	(212) 873-3600
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	325594
DEC Memo:	1/16/07 bf: sent ttf letter to:Vincent Miserendino491 Bergen St. Corp.475 Amsterdam AvenueNew York, NY 100242/2/07 received response to ttf letter from Bob Urban of Pro Test. Tank failed due to manhole cover needing a new gasket. Tank passed tightness test. Results of test included with letter. bf 2/15/07 called Bob Urban (718)815-6292 to find out if any contaminated soil was observed. He told me that the gasket that was replaced was inside a manhole and no indication of petroleum release was observed. NFA. bf
Remarks:	DRY LEAK:

Material:

Site ID:	375995
Operable Unit ID:	1133607
Operable Unit:	01
Material ID:	2123423
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	375995
Spill Tank Test:	1550555
Tank Number:	1
Tank Size:	2000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	1/12/2007
Test Method:	Horner EZ Check I or II

UST:

Id/Status:	2-094528 / Active
Program Type:	PBS
Region:	STATE
DEC Region:	2
Expiration Date:	05/07/2017
UTM X:	586730.63066999998
UTM Y:	4503787.0761500001

PETER F REILLY STORAGE INC (Continued) **U001832434**

Site Type: Other

Affiliation Records:

Site Id: 2567
Affiliation Type: Facility Owner
Company Name: 491 BERGEN ST CORP
Contact Type: PRES
Contact Name: JOHN SOFIA , JR. 491-BERGEN ST. CORP
Address1: 475 AMSTERDAM AVE
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10024
Country Code: 001
Phone: (212) 873-3600
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 1/17/2012

Site Id: 2567
Affiliation Type: Mail Contact
Company Name: 491 BERGEN ST CORP
Contact Type: PRES
Contact Name: JOHN SOFIA , JR.
Address1: 475 AMSTERDAM AVE
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10024
Country Code: 001
Phone: (212) 873-3600
EMail: Not reported
Fax Number: Not reported
Modified By: msbaptis
Date Last Modified: 2/12/2007

Site Id: 2567
Affiliation Type: On-Site Operator
Company Name: PETER F REILLY STORAGE INC
Contact Type: Not reported
Contact Name: SOFIA BROS INC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (718) 638-1020
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 2567
Affiliation Type: Emergency Contact
Company Name: 491 BERGEN ST CORP
Contact Type: Not reported

PETER F REILLY STORAGE INC (Continued) **U001832434**

Contact Name:	SAMUEL BURRELL
Address1:	Not reported
Address2:	Not reported
City:	Not reported
State:	NN
Zip Code:	Not reported
Country Code:	001
Phone:	(718) 515-8153
EMail:	Not reported
Fax Number:	Not reported
Modified By:	TRANSLAT
Date Last Modified:	3/4/2004

Tank Info:

Tank Number:	001
Tank ID:	4451
Tank Status:	In Service
Material Name:	In Service
Capacity Gallons:	2000
Install Date:	01/01/1931
Date Tank Closed:	Not reported
Registered:	True
Tank Location:	Underground
Tank Type:	Steel/carbon steel
Material Code:	0001
Common Name of Substance:	#2 Fuel Oil (On-Site Consumption)
Tightness Test Method:	21
Date Test:	12/06/2011
Next Test Date:	12/06/2016
Pipe Model:	Not reported
Modified By:	BKFALVEY
Last Modified:	12/23/2011

Equipment Records:

C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
G00 - Tank Secondary Containment - None
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
B00 - Tank External Protection - None
H00 - Tank Leak Detection - None

HIST UST:

PBS Number:	2-094528
SPDES Number:	Not reported
Emergency Contact:	MARIO CARBONE
Emergency Telephone:	(212) 243-6376
Operator:	SOFIA BROS INC
Operator Telephone:	(718) 638-1020
Owner Name:	491 BERGEN ST CORP
Owner Address:	475 AMSTERDAM AVE
Owner City,St,Zip:	NEW YORK, NY 10024

PETER F REILLY STORAGE INC (Continued) **U001832434**

Owner Telephone:	(212) 873-3600
Owner Type:	Corporate/Commercial
Owner Subtype:	Not reported
Mailing Name:	491 BERGEN ST CORP
Mailing Address:	475 AMSTERDAM AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NEW YORK, NY 10024
Mailing Contact:	VINCENT MISERENDINO
Mailing Telephone:	(212) 873-3600
Owner Mark:	First Owner
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Addr2:	491 BERGEN ST
SWIS ID:	6101
Old PBS Number:	Not reported
Facility Type:	OTHER
Inspected Date:	Not reported
Inspector:	Not reported
Inspection Result:	Not reported
Federal ID:	Not reported
Certification Flag:	False
Certification Date:	06/24/1997
Expiration Date:	05/07/2002
Renew Flag:	False
Renewal Date:	Not reported
Total Capacity:	2000
FAMT:	True
Facility Screen:	No Missing Data
Owner Screen:	No Missing Data
Tank Screen:	Minor Data Missing
Dead Letter:	False
CBS Number:	Not reported
Town or City:	NEW YORK CITY
County Code:	61
Town or City:	01
Region:	2
Tank Id:	001
Tank Location:	UNDERGROUND
Tank Status:	In Service
Install Date:	Not reported
Capacity (gals):	2000
Product Stored:	NOS 1,2, OR 4 FUEL OIL
Tank Type:	Steel/carbon steel
Tank Internal:	Not reported
Tank External:	Not reported
Pipe Location:	Not reported
Pipe Type:	STEEL/IRON
Pipe Internal:	Not reported
Pipe External:	Not reported
Second Containment:	None
Leak Detection:	None
Overfill Prot:	Product Level Gauge
Dispenser:	Suction
Date Tested:	06/01/1997
Next Test Date:	06/01/2002

PETER F REILLY STORAGE INC (Continued) **U001832434**

Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Horner EZ Check
Deleted: False
Updated: True
Lat/long: Not reported

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261 SSW 1/4-1/2 0.399 mi. 2109 ft. **FMR GAS STATION/VACNT LOT** **NY LTANKS** **S101658438**
124 4TH AVENUE **NY Spills** **N/A**
BROOKLYN, NY

Relative: Lower

Actual: 29 ft.

LTANKS:
Site ID: 261276
Spill Number/Closed Date: 9505523 / 1/17/2013
Spill Date: 8/3/1995
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 12/14/2004
Cleanup Meets Standard: False
SWIS: 2401
Investigator: VXBREVDO
Referred To: DELINEATION WORK PLAN 3/16/2009
Reported to Dept: 8/3/1995
CID: Not reported
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 9/25/1995
Spill Record Last Update: 1/17/2013
Spiller Name: Not reported
Spiller Company: CITGO STATION
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 433269
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"01/07/04ALso refer to Spill #04-070829/27/04-Reassinged from Rommel to sun.9/28/04 File Update by Sun: On 9/29/04, Joe Sun conducted a site visit. Sun spoke to Mark Turoff of Environmental System Group (Tel: 917-750-1483) about the site investigation he has recently performed. Per Turoff, his company had installed twelve soil temporary wells on 9/27/04 and had collected soil and groundwater samples from eleven wells except one which contained one foot of free phase product. He will send me the invstigation report after the laboratory report is complete.10/7/04 Sun received an e-mail from Lauren Gallagher, Project Manager from NYCDEP on 10/7/04 for this "Little E Restricted" site. She will fax to me a copy of Phase II

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

testing and accompanying HASP which they approved on 9/8/04. 04/08/05-File Update by Sun: The Stipulation Agreement was signed by the owner and executed by the Department on 12/15/04.-On April 6, 2005, DEC received an Investigation Summary Report from owner's consultant, Advanced Site Restoration, LLC. Joe Sun called the owner (Paul Rigas)on 04/08/05, informing him that the Department disapproved the report, since it does not delineate the off-site contamination. A meeting is scheduled for April 19, 2005 at the site between the DEC and the owner to discuss the location of off-site wells. -WJS04/25/05-File Update by Sun: On 5/25/05, Sun sent a letter to the property owner (George Rigas), informing him that the Department has reviewed and approved the Investigation Summary Report with the incorporation of the following items: 1.Install two (2) two-inch (minimum) off-site monitoring wells in sidewalk east of Butler Street between 3rd Avenue and 4th Avenue in Brooklyn, New York. The monitoring wells should be selected at locations down-gradient of the existing monitoring wells TMW-16 and TMW-17. The new wells will provide the additional off-site delineation of dissolved groundwater contamination plumes. Pursuant to the Stipulation Agreement signed and dated effective December 15, 2004, the Department requires a Remedial Action Plan (RAP) be submitted by June 24, 2005.THe Department requires that the RAP shall detail the work proposed to remediate all contaminated media (groundwater and soil) and provide a detailed descriptions of a vapor mitigation efforts used in the construction of the residence including the installation of vapor barriers and sub-foundation venting systems. (WJS)06/29/05 File Update by Sun: On 06/29/05, Sun sent a letter to the property owner (George Rigas), informing him that the Department has reviewed and approved the Remedial Action Plan, prepared by Advanced Cleanup Technologies, Inc., with the incorporation of the following items:1. The OMMP shall describe and tabulate the operation, maintenance and monitoring schedule (frequency) for system equipment and their performance, influent and effluent water sample, system influent and effluent air emission, all monitoring wells and soil vapor monitoring points. EPA Method TO-14A, not TO-02 as stated in Reference 1, shall be used to sample and analyze air stream before and after carbon treatment. 2. Soil Vapor Extraction System (SVES) Data sheet and Air Stripper Data Sheet shall be completed and submitted to the Department by November 15, 2005 for review. The Blank SVES and Air Stripper Data sheets are attached here for your reference.3.Measurements of groundwater levels in all area are to be conducted monthly for the first three months, and then quarterly. Collection and analysis of groundwater and soil vapor samples shall be conducted monthly for all monitoring wells and soil vapor monitoring points. (Sun)12/09/05-Sun: Sun received an email from Paul Stewart of ACT, Inc., informing the Department on the current status of the projec: The owner modified development plans for the property to include a full basement with elevator room and underground parking rather than a partial basement with elevator room only. The NYCDEP required modifications to the work plan approved by the NYSDEC to account for the full basement. The modified work plan was approved by the NYCDEP and includes a vapor barrier under the entire property and a more extensivesubslab ventilation system. A supplemental soil and ground water investigation is currently being performed and should be completed by Friday. The existing cased wells were surveyed and a flow direction to the west was calculated. The results of the supplemental investigation will be used to size and locate the soil

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

vapor extraction and ground water recovery systems.
(Sun)01/11/06-Sun: Sun sent a letter to the property owner, Paul Bregianos of Arc Electrical and Mechanical, approving the revised Remedial Action Plan prepared by Advanced Cleanup Technologies, Inc. dated 01/04/06, as noted below: Soil Vapor Extraction System (SVES) data sheet and Air Stripper Data Sheet shall be completed and submitted to the Department by March 31, 2006 for review, (2)The owner must notify the Department of site status change from Closed-In Place to Closed-Removed for seven (7) 550-gallon gasoline underground storage tanks (USTs) within 30 days prior to sustantially modifying a facility. (Sun)03/27/06-Sun received an email from Paul Stewart of ATC on 03/06/06 informing DEC that they are planning to issue to DEC a formal report on the extent of free product and dissolvedgasoline in ground water beneath the site. It will also contain a summary of underground storage tank closure activities as requested in DEC's correspondence to the property owner. We should have the report to DEC by the end of this week. (Sun)03/27/06-Sun sent an email to Paul Stewart of ATC stating that DEC is still waiting to receive a report from ATC on the extent of free product and dissolved gasoline in ground water beneath the siteand a summary of underground storage tank closure activities as requested in DEC's correspondence to the property owner. (Sun)06/16/06-Sun: Paul Stewart of ACT (Consultant for RP) informed the Department that installation of the recovery well, monitoring wells and vapor monitoring points is complete. The horizontal ventilation screens and piping associated with the vapor extraction wells is also complete. Tomorrow,we will be overseeing installation of the vapor extraction wells. Wewill also be connecting those wells to piping leading to the location of the treatment system. Next week we will be installing the remaining sections of the 20 mil HDPE liner. The concrete foundation floor will be poured soon after that. Once the first floor parking garage has been completed, we will perform a ground water pump test and a pilot soil vapor extraction test to size a treatment system. Installation of the treatment system will depend upon the construction schedule and access to the alleyway where it will be located. We expect that will take place this fall. (Sun)09/06/06-Sun: Sun received an email dated 09/04/06 from Paul Stewart of ACT (Consultant for RP)as follows: "All wells and subsurface piping have been installed. We are waiting for completion of the first floor so we can install a pilot system and perform a pilot SVE and ground water pump test. I expect that should take place in October". (Sun)12/13/06-Sun: Sun received an email from Paul Stewart on 10/30/06, stating taht All of the wells and piping for a pump and treat system, vapor extraction system and subslab depssurization system have been installed. He is currently waiting for completion of the first floor of the building so he can install a pilot system and perform a pilot SVE and ground water pump test. He spoke with Paul Bregianos who said the first floor would becompleted after the steel was installed which should be this winter.
(Sun)03/23/07-Sun: On 03/23/07 Sun received the following email from Paul Stewart: We completed piping the soil vapor extraction and recovery well conduits to the western portion of the utility room and the concrete floor was installed. We are now awaiting installation of electric service to the utility room in order to perform a pilot SVE and pump test. I willnotify you when the pilot tests are scheduled.
(Sun)10/19/07-Sun: On 10/18/07 Sun received the following email from Paul Stewart of ACT for the status of this projec" We performed a pilot test of the soil vapor extraction system and a pump test on the

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

recovery well last week and plan to have a pilot test report issued next week. The full scale remedial system should be installed before Thanksgiving". (Sun)12/18/07-Sun: Sun received the following email from Paul Stewart of ACT,"A pump test performed on the recovery well indicated that ground water could not be recovered at a flow rate that could contain the ground water plume. Therefore, we will rely upon two 15 Hp regenerative blowers to remediate soil and ground water in the 6 SVE wells installedbeneath the site. A 5.5 Hp regenerative blower for a sub-slab depressurization system is also being installed as a precaution to protect building occupants. The remedial system is being delivered this week and will be installed and put into operation the first week of January, 2008. I will forward a startup report to you and the NYCDEP once the remedial system has been rendered operational." (Sun) 2/25/08-Sun: Sun received the following email from Paul Stewart of ACT, the consultant for the RP,"The remedial system has been completely installed and is ready for full scale operation. We are waiting for the owner to provide us with an active telephone line to permit unattended operation. The telephone line should be installed within 10 days at whichtime the remedial system will be turned on. A Startup Report and an Operation, Maintenance and Monitoring Plan will be forwarded to your attention in approximately 2 weeks. A Closure Report will also be submitted to the NYCDEP with a copy to you." (Sun)3/12/08-Sun: Sun visited the site to witness the start-up of the remedial system. (Sun)4/2/08-Sun; Sun received the Remedial System Operation, Maintenance and Monitoring Plan (OMMP) from Paul Stewart of ACT, Inc. (Phone # 631-293-4992). (Sun)4/11/08: Sun sent the following email to Paul Stewart: "Hi, Paul,While I was reviewing the Remedial System OMMP, submitted by you, dated April 1, 2008 for the above referenced site, I found the following documents are missing in the OMMP report: 1. Figure 1: Remedial System Layout 2. Figure 2: Treatment Room Equipment Layout 3. Table 1: Troubleshooting Guidance TableI also noticed that P&ID was not included in the OMMP. The P&ID is a very important document which shows all the equipment, and instrumentation and control. Please revise your OMMP to include P&ID.I have reviewed SVES Data Sheet and found one error on Item #12 (Contaminant). Based on 33 ft of Stack Height and 250 CFM of Air Flow Rate, the Permissible Air Output Concentration for Benzene is 0.02206 LBS/HR, NOT 0.00494 LBS/HR as indicated in your SVES Data Sheet. (Please note that 0.00494 LBS/HR is based on 15 ft of Stack Height).Please address the above comments and resubmit." (Sun)4/22/08-Sun: Sun reviwed the Remedial System Operation, Maintenance and Monitoring Plan (OMMP), dated 3/31/08, submitted by RP's consultant, Advanced Cleanup Technologies, Inc. (ACT). The Department also reviewed the supplemental documents submitted by ACT on April 16, 2008, including Figure 1 through 3 and Table 1 which were missing in Reference 1 and a revised SVES Data Sheet indicating the correct Permissible Air Output Concentration for Benzene as 0.002206 LBS/HR. The Department approved the OMMP with the condition that a third Pressure gauge & sampling port be installed on inter-connection between two Vapor Carbon Filters. (Sun) 6/24/08-Sun: Sun received the following email from Paul Stewart of ACT,"Operation, maintenance and monitoring of the remedial system is being performed on a monthly basis. A quarterly monitoring report will be prepared for submittal in August." (Sun)8/1/2008 - Project reassigned to Feng. 1/21/2009 - Quarterly Monitoring Report, 4/2008 - 7/2008, 10/3/2008, by ACT. The site is occupied by a ten-story residential apartment building. A

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remdial program was started 3/12/2008 consisting of an active SVE and treatment system and an active sub-slab depressurization system and treatment system. There are 3 vacuum probes VP-1 to VP-3 for monitoring sub-slab vacuum monthly and Groundwater monitoring wells MW-01 and MW-03 for quarterly monitoring, are located in the cellar floor. Additional monitoring well RW-01 is located in the first floor treatment room. A circuit breaker malfunctioned on the B-200 SVE blower causing it to remain off since 5/30/2008. The two SVE manifolds were joined together. Increased pressure in the B-100 carbon units required the B-100 SVE blower to be shut down unitl the problem could be resolved.Average DTW 11.71 feet. 4 wells were sampled on 4/28/2008. BTEX range 600 ug/L in MW-01 to 9,842 ug/L in MW-02. MTBE range from 23.1 ug/L in MW-01 to 229 ug/L in MW-02. (RJF)1/26/2009 - Letter to Paul Bregianos (Arc Electrical and Mechanical). DEC requires 1) explanation of the reason why groundwater treatment is missing, 2)surrounding map, 3) delineation work plan for offsite. Investigation work plan include addressing the above comments by 3/16/2009. (RJF)10/1/2009 - Site Status Report for 2/2009 to 7/2009, dated 9/2/2009, by Advanced Cleanup Technology. On July 16, 2009, a low flow pump test was performed on RW-01. Groundwater recharge is relatively fast. On July 22, 2009, the configuration of the SSD and SVE piping was modified by connecting the casing to RW-01 and the influent piping from the SSD system to the influent piping for SVE Blower B-100. The modified configuration was operated for a few days when high room temp required shut down of the B-100 blower. The ball valves for the SSD piping were re-directed to the 5.5 Hp B-300 blower which was turned on. The B-100 blower was turned off until ambient temp decrease this fall. DTW 13.53’ in MW-02 to 14.05’ in MW-01. DTW in RW-01 was 22.84’. Groundwater was sampled on 7/22/2009. BTEX range 177 ug/L in MW-01 to 7,200 ug/L in MW-03. MTBE range 15 ug/L in MW-01 to 76 ug/L in MW-03. Will continue monthly system operation, maintenance and monitoring and quarterly groundwater sampling. (RJF)5/19/2010 - received inquiry regarding the two monitoring wells in front of the 355 Butler Street. The two wells were installed back in 5/2005, sampled once during installation, but no included in the quarterlys. 6/1/2010 - email to Paul Steward (ACT) for information on these two wells, and required site plan with all the wells, their monitoring data and contour map in the next quarterly. 11/4/10. Site Status Report was due in early September 2010. Breen11/20/10. Sent e-mail to Paul Steward asking for status reports subsequent to 9-2-09.06/28/2012 - V. Brevdo - Discussed project with Paul Stuart of ATC Environmental via telephone(Phone # 631-293-4992). Sent the following e-mail to Mr. Stuart: "June 28, 2012 Dear Mr. Stuart: Thank you for discussing status of the project with me earlier today. It is my understanding that the project has undergone investigation, remediation and is currently in operations, maintenance and monitoring stage with groundwater monitoring ongoing. I also appreciate your thoughts regarding further course of action for the project. It is my understanding that you will be preparing a Project Status Update report and you intend to submit status update report to the Department for review within 30 days . You also agreed to e-mail me a synopsis /briefing describing main highlights of the project and its current status and accomplishments. We agreed that you and I will further evaluate whether current site conditions and remedial progress at this project may advance it into a spill closure status. In evaluation of spill closure potential I would like you to be cognizant of the main criteria which we, in the Division of

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

Environmental Remediation, Region 2 office are looking at when making a spill closure decision. These spill closure criteria are as follows: free product must be removed, grossly contaminated soil with visible staining must be removed, source of contamination must be removed, concentrations of contaminants in soil and groundwater are either at the levels of cleanup guidance values or higher but within acceptable range to DEC, no migration of contaminant off site occurs, remaining contamination is contained, no threat of exposure to vapors from remaining contamination exists, and site poses no further threat to human health and environment. We also use engineering controls such as vapor barriers and SSDS system where necessary. Please note that it is DEC's strong preference that SSDS system remain in operation and be maintained and functioning as an engineering control after spill case is closed . Thesystem must be monitored and maintained in accordance with the procedures set forth in the future Spill Closure Report (when DEC agrees that spill closure is appropriate), including all system equipment such as piping, fans, vacuum gauge and low vacuum visual alarm. Furthermore, the Department strongly recommends the performance of an annual inspection of the system and requiresnotification of significant operational and maintenance related issues. I look forward to receiving a project synopsis via e-mail as well as Project Status Update report. Please note that I need one hard copy and one electronic PDF copy on CD of all the submissions (except e-mails). Please contact me at 718-482-4928 or via e-mail if you have questions regarding this matter. Respectfully, Vadim Brevdo" 01/11/2013 - V. BrevdoLeft telephone voice mail to Paul Stuart, requested a return call to discuss project's status. Paul Stuart returned call and said will submit report within a week.V. Brevdo01/17/2013 - V. BrevdoE-mail from consultant, submitted spill closure request report dated January 17, 2013 with the following e-mail:"Vadim,Attached please find an electronic copy of our report for the above-referenced property entitled Request for Spill Closure. Please contact me if you would like a CD or hard copy of our report or if you require further information concerning remedial activities at the subject property.Thank you for your assistance and cooperation in this matter.Regards, Paul P. Stewart, PresidentAdvanced Cleanup Technologies, Inc.960 South Broadway, Suite 100Hicksville, New York 11801Phone: (516) 933-0655 x 12Cell: (516) 840-8197Fax: (516) 933-0659Email: pauls@actenvirons.com01/18/2013 - V. BrevdoReviewed January 17, 2013 Spill Closure Report and spill closure request.The site consists of a ten-story residential apartment building surrounded by commercial and residential properties. The site was utilized as a gasoline service station from 1963 to 2000 which resulted in impacted soil and ground water beneath the site. Remedial activities have taken place at the site from 2005 through the current date. Petroleum storage facilities and impacted soil were removed from the site during construction of the existing building and below grade parking garage. Residual soil and ground water contamination have been remediated through the installation and operation of a pump and treat system, soil vapor extraction and sub-slab depressurization (SVE/SSD) system that has continually operated from March 2008 to date. Recent ground water quality data indicate that asymptotically low levels of petroleum constituents have been attained in ground water beneath the site. Advanced Cleanup Technologies, environmental engineering consultant for the responsible party, submitted January 17, 2013 remediation report and requested closure of spill case. SSD

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

component of the remedial system will remain in operation as an engineering control to ensure that there is no threat of exposure to vapors from the remaining residual contamination. The Department reviewed remediation report, including analytical data for the site, and concluded that closure of the spill case is appropriate based on the following:1) Free-phase product has not been identified at the site since underground storage tanks wereremoved and petroleum impacted soil was excavated during construction of the existingbuilding.2) All underground storage tanks and petroleum-impacted soil were removed and properly disposed of during site development as indicated in ACT's March 31, 2008 Closure Report.3) A review of historical ground water quality data demonstrates an asymptotic improvement inwater quality beneath the site.4) Air beneath building remains under negative pressure due to the active SSD system and as aresult no migration of vapors from remaining contaminants into the building will occur.5) Tthe site poses no further threat to human health and the environment.Spill is closed effective January 18, 2013. Spill Closure Letter sent to Paul Stuart of ACT with the following e-mail: "January 17, 2013 Dear Mr. Stuart: The Department reviewed Spill Closure Report and request for spill closure dated January 17, 2013. Based on the review of the report, investigative and remedial activities completed to date, analytical data presented in the report, and Conclusions/Recommendations section of the Report, the Department agree that the closure of this spill case is appropriate at this time. Therefore, spill case is closed effective January 17, 2013. Spill closure letter is attached for your file. It is my understanding that the SSD system will remain in operation at the site as an engineering control to prevent possibility of exposure to potential vapors from remaining residual contamination beneath the site. If you have questions regarding this matter, please contact me. Respectfully, Vadim Brevdo"

Remarks: PRODUCT LINE TEST - REMOTE DISCHARGE LINES LEAK RATE - 3

Material:

Site ID:	261276
Operable Unit ID:	1016424
Operable Unit:	01
Material ID:	363517
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	261276
Spill Tank Test:	1544053
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	0407082
Facility Type:	ER
DER Facility ID:	213376
Site ID:	169376
DEC Region:	2
Spill Date:	9/27/2004
Spill Number/Closed Date:	0407082 / 9/28/2004
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	WXSUN
Referred To:	Not reported
Reported to Dept:	9/27/2004
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/27/2004
Spill Record Last Update:	7/19/2005
Spiller Name:	MARK TUROFF
Spiller Company:	VACANT LOT
Spiller Address:	126 4TH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	MARK TUROFF
Contact Phone:	(917) 750-1843
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SUN"9/27/04 - AUSTIN - SPOKE WITH TUROFF, WHO CALLED OFFICE - HE'S ALSO WORKING WITH NYCDEP ON THIS SITE, WHICH IS A FORMER GAS STATION. I TOLD HIM TO WORK WITH THE DEC PROJECT MGR. TO COORDINATE WHAT'S NEEDED FOR THE INVESTIGATION ON THIS SITE, AND TO NOTIFY SAID MGR. IF CONFLICTS ARISE BETWEEN DEC'S AND DEP'S REQUIREMENTS FOR THE WORK. IF THIS HAPPENS, THE DEC AND DEP PROJ. MGRS SHOULD BE IN CONTACT TO WORK OUT ANY DIFFERENCES. - END9/28/04-Reassigned from Rommel to Sun.9/28/04-Joe Sun conducted a site visit. Spoke with Mark Turoff of Environmental System Group (Tel # 917-750-1483) about the site investigation he has recently conducted. Per Turoff, his company had installed twelve soil temporary wells yesterday (9/27/04) and had collected soil and groundwater samples from eleven wells except one which contained one foot of free phase product. He will send me the investigation report after the laboratory report is completed.9/28/04-To be investigated and remediated under Spill # 95-05523. The Spill is closed.

FMR GAS STATION/VACNT LOT (Continued) **S101658438**

Remarks: TESTING GROUND WATER AND FOUND WATER AND SOIL TO BE CONTAMINATED: WORKING WITH THE DEP:

Material:

Tank Test:

262
SW
1/4-1/2
0.399 mi.
2109 ft.

MAXIMUM DISTRIBUTORS- TTF **NY LTANKS** **S109829733**
151-169 3RD AVE **N/A**
BROOKLYN, NY

Relative:
Lower

Actual:
21 ft.

LTANKS:

Site ID:	495561
Spill Number/Closed Date:	1402248 / 7/9/2014
Spill Date:	6/2/2014
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	RMPIPER
Referred To:	Not reported
Reported to Dept:	6/2/2014
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/2/2014
Spill Record Last Update:	7/9/2014
Spiller Name:	JOE MACCHIA
Spiller Company:	ASTI HOLDING CORP
Spiller Address:	151-169 3RD AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	999
Spiller Contact:	SHAWN SCKEAN
Spiller Phone:	(610) 278-7203
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	364188
DEC Memo:	6/2/14 TJDTeleconfence with tank owner (Mr. Joseph Macchia) - he states tank has failed tighness test which vent piping is suspected cause. Original failing tighness test report was requested, Mr. Macchia states test report is not yet available. Cromco is scheduled to return to site on 6/3/14 to perform a helium isolation test. TTF letter has been prepared and sent via US Mail to correspondence address listed on PBS Facility Information Report. In addition leter has been e-mailed to Mr. Macchia at jmacchiamdi@aol.com. TTF letter could not be uploaded to DECDOCS as the file is not currently available. PM (Piper) has been provided an electronic copy of corespondence and will upload to DECDOCS when file location becomes

MAXIMUM DISTRIBUTORS- TTF (Continued) **S109829733**

available.Helium pinpoint service performed on failed Regular unleaded tank system. Through this pinpointing, crew Identified the leak source to be on the vent line back at vent stack.Alvin Petroleum was on site and made immediate repairs followed up by testing by Crornpco. System passed testing. Spill closed. Results and repair documentation in dec docs.

Remarks: Reporting tank test failure.

Material:

Site ID:	495561
Operable Unit ID:	1245064
Operable Unit:	01
Material ID:	2245969
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	415051
Spill Number/Closed Date:	0902974 / 8/18/2009
Spill Date:	6/12/2009
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	6/12/2009
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	6/12/2009
Spill Record Last Update:	8/18/2009
Spiller Name:	Not reported
Spiller Company:	MAXIMUM DISTRIBUTORS
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	DENNIS WOOD
Spiller Phone:	(615) 372-6010
Spiller Extention:	Not reported

MAXIMUM DISTRIBUTORS- TTF (Continued) **S109829733**

DEC Region: 2
DER Facility ID: 364188
DEC Memo: Telephone request to Dennis Wood of Titan Management - Asking for status update.Man way gasket needs to be replaced - Has this work been done? Was there any contamination?8/4/2009 e-mail from Amanda Sisel at Titan Management (615.372.6006 office)1006 Flagpole Ct, Suite 104, Brentwood, TN 37027"I wanted to let you know that I am working on getting the information yourequested for the failed tank test at 169 Third Ave. Joe Macchia is onvacation until tomorrow and I am hoping to get the information from him andget this resolved upon his return to the office. "8/5/2009 TTF sent to:Mr. Dennis WoodTitan Management1006 Flagpole Ct, Suite 104Brentwood, TN 370278/10/2009 e-mail from Amanda Sisel at Titan says:"Manway gasket repaired - no contamination found - passed new tank test"Copy of June 2009 passing tank test attached in eDocs
Remarks: 1525 The caller advised dispatch there is no clean up necessary. A man way gasket needs to be replaced.

Material:
Site ID: 415051
Operable Unit ID: 1171412
Operable Unit: 01
Material ID: 2163214
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

263
SSE
1/4-1/2
0.404 mi.
2135 ft.

DEPARTMENT HPD **NY LTANKS** **S105135592**
516 BERGEN STREET **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
65 ft.

LTANKS:
Site ID: 249040
Spill Number/Closed Date: 0106869 / 10/25/2005
Spill Date: 10/2/2001
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: DJEATON
Referred To: Not reported
Reported to Dept: 10/2/2001
CID: 282

DEPARTMENT HPD (Continued) **S105135592**

Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/2/2001
Spill Record Last Update:	10/25/2005
Spiller Name:	SAME
Spiller Company:	DEPARTMENT HPD
Spiller Address:	516 BERGEN STREET
Spiller City,St,Zip:	BROOKLYN, NY 11238-
Spiller County:	001
Spiller Contact:	LOUIS CASANOVA
Spiller Phone:	(212) 837-8372
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	204214
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"10/3/03 tipple sent letter requesting documentation3/1/04 TIPPLE SPOKE WITH HPD REP. BORINGS TO reveal subsurface conditions//if clean and tank registered for abandonment...nfa to follow///10/21/05 Second submission of spill closure request received and reviewed by Eaton in Albany. First submission received 09/04.10/25/05 Eaton spoke with Stephen Arthur of TDX Construction, the contract manager, to clarify discrepencies in the request. The original tank had failed tank tightness test in October of 2001. In March of 2003 a new 1500 gallon underground storage tank and associated plumbing were installed. The old 1500 gallon above ground storage tank was cleaned, purged, and removed. PBS number 2-601145.10/25/05 Spill closed. DE
Remarks:	TANK FAILED THE TEST

Material:

Site ID:	249040
Operable Unit ID:	845083
Operable Unit:	01
Material ID:	531712
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	249040
Spill Tank Test:	1526648
Tank Number:	1
Tank Size:	3000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported

DEPARTMENT HPD (Continued) **S105135592**

Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

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264 ESE 1/4-1/2 0.407 mi. 2148 ft. | **ATLANTIC MERIT** | **NY LTANKS** | **S102671307**
ATLANTIC & CARLTON AVE. | **N/A**
NEW YORK CITY, NY

Relative: Higher

Actual: 59 ft.

LTANKS:

Site ID:	159878
Spill Number/Closed Date:	8804681 / 8/29/1988
Spill Date:	8/28/1988
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	8/29/1988
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	8/28/1988
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/31/1988
Spill Record Last Update:	10/29/1998
Spiller Name:	Not reported
Spiller Company:	ISLAND TRANSPORT
Spiller Address:	5700 47TH STREET
Spiller City,St,Zip:	QUEENS, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	135046
DEC Memo:	Not reported
Remarks:	SPILL CLEAN-UP W/SPEED-DRY,NO SEWERS,NO DRAIN,/NEW DRIVER-W.DYNOE 2-4,000 GALLONS-NOT MANIFOLDED.

Material:

Site ID:	159878
Operable Unit ID:	921849
Operable Unit:	01
Material ID:	456611
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15

ATLANTIC MERIT (Continued) **S102671307**

Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

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265 East 1/4-1/2 0.417 mi. 2202 ft. | **428 CLERMONT AVE** | **NY LTANKS** | **S102672084**

428 CLERMONT AVE **N/A**
BROOKLYN, NY

Relative: Higher

Actual: 79 ft.

LTANKS:

Site ID:	221340
Spill Number/Closed Date:	9212121 / 1/25/1993
Spill Date:	1/20/1993
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	1/25/1993
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	CAMMISA
Referred To:	Not reported
Reported to Dept:	1/25/1993
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/29/1993
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	BERGEN FUEL CO.
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	183059
DEC Memo:	Not reported
Remarks:	OIL LEAKED TO BASEMENT FLOOR(CONCRETE) W/MINOR CRACKS-NOTIFY APPLIED SPEEDI-DRI MILRO P/U AND DISPOSED AND POWER WASHED

Material:

Site ID:	221340
Operable Unit ID:	976681
Operable Unit:	01
Material ID:	401980
Material Code:	0001A

428 CLERMONT AVE (Continued) **S102672084**

Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	50
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

266
SW
1/4-1/2
0.420 mi.
2217 ft.

BALTIC RECYCLING CORP.
524-26 BALTIC STREET
BROOKLYN, NY 11217

NY SWF/LF **S105841705**
N/A

Relative:
Lower

Actual:
17 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7186242459
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	PAUL RUTIGLIANO; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Transfer station - permit
Activity Number:	[24T97]
Active:	No
East Coordinate:	585825
North Coordinate:	4503935
Accuracy Code:	Not reported
Regulatory Status:	Permit
Waste Type:	Not reported
Authorization #:	2-6103-00063
Authorization Date:	03/19/1997
Expiration Date:	03/19/2002

267
North
1/4-1/2
0.431 mi.
2274 ft.

APARTMENT BUILDING - TTF
125 ASHLAND PLACE
BROOKLYN, NY 11201

NY LTANKS

S106124004
N/A

Relative:
Lower

Actual:
34 ft.

LTANKS:

Site ID:	93393
Spill Number/Closed Date:	0311788 / 8/25/2014
Spill Date:	1/20/2004
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	1/20/2004
CID:	444
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/20/2004
Spill Record Last Update:	8/25/2014
Spiller Name:	Not reported
Spiller Company:	APARTMENT BUILDING
Spiller Address:	125 ASHLAND PLACE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	MARTIN MARKS (ARCO MGT.)
Spiller Phone:	(718) 332-0777
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	12162
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE"sent TTF letterSangesland spoke with Phil Fazin Crown Leak Det. (516-939-2959)One of 2 - 10,000 gal tanks on site leaked and failed a tank test. PBS records show the PBS expired 7/14/2002.TTF Ltr (with PBS expired note) sent to:Arco-Wentworth Management3646 Nostrand Ave - 4th FlrBrooklyn, NY 11229Attn: Martin Marks 7.16.04 tipple sent letter requesting documentation.////////////////////2/15/06: CBNCalled Martin Marks (718) 332-0777 and left a message but haven't received anything back.9/22/06 called A-1 Crown Leak re: tank failure. left info. they will get back to me. bf8/17/12 Spill re-assigned to T. Demeo as per RSE. bf1/3/13 AFrischeisen internRevious TTF letter mailed Dec 13, 2012 was returned as undeliverable. Resent TTF letter to revised address and upped to eDocs.8/1/14 TJDFile review - TTF (wet/dry leak) reported by A1- Crown Leak Detection associated with (2) 10K UST's manifolded. A review of PBS documents reveal the registration expired on 7/14/02. Multiple calls to contacts listed on PBS registration were made - all contact information is out of date. DeMeo was able to obtain information for the current management company FS Residential

APARTMENT BUILDING - TTF (Continued) **S106124004**

Management and the current management agent Ms. Miriam Stolin (718.875.9225). Teleconference with Ms. Stolin reveal that property is a co-op comprised of (5)building for a total of 292 units. Ms. Stolin states she has managed the property since 2009 and was unaware of any open spill file associated with this site - she further states that in April 2014 the complex converted to natural gas from dual fuel and will no longer be using oil - they will be abandonning the UST in place. DeMeo requested of all documentation available concerning the tank system at this property.8/12/14 TJDFile review - duplicate PBS numbers found for this facility 2-279617 & 2-608923. Property has had multiple management agents since reported tank test failure - historical records are unavailable. Facilty was able to produce records (work orders and invoices) for work associated with the (2)10K UST's registered at this facilty. The contractor Petroleum Tank Cleaners isolated the tanks and performed tank only tests with passing results in February 2004, a failed cross-over line was identified and replaced in May 2004, followed by passing system test in June 2004. There is no mention of any contamination discovered during the replacement of the failed cross-over line by PTC. Another passing system test was performed in January 2012. As per information obtained during discussions with the current property manager the facility has switched to a natural gas in April 2014 and will no longer be using the (2)10K UST's which they plan to close in place ASAP. Based upon the documentation available - no further action is required at this time. Spill is administratively closed. Due to the multiple PBS numbers associated withthis property Spills (DeMeo). referred the PBS discrepancies to PBS unit (Zielinski) for any necessary follow-up. All available documentation has been uploaded to DECDOCS.

Remarks: gross failure, above ground tank. recommend tank cleaning and retest

Material:

Site ID:	93393
Operable Unit ID:	879380
Operable Unit:	01
Material ID:	559953
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	93393
Spill Tank Test:	1528922
Tank Number:	001-south
Tank Size:	10000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004

APARTMENT BUILDING - TTF (Continued) **S106124004**

Test Method: Horner EZ Check I or II

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268 SSE 1/4-1/2 0.439 mi. 2320 ft.

CINDERELLA CLEANERS
248 FLATBUSH AVE
BROOKLYN, NY 11217

RCRA-CESQG **1000188071**
NY MANIFEST **NYD980789564**
NY DRYCLEANERS
NY BROWNFIELDS
US AIRS

Relative: Higher

Actual: 70 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	CINDERELLA CLEANERS
Facility address:	248 FLATBUSH AVE BROOKLYN, NY 11217
EPA ID:	NYD980789564
Mailing address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	FLATBUSH AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private

CINDERELLA CLEANERS (Continued) **1000188071**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: CINDERELLA CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/05/1995
Site name: CINDERELLA CLEANERS
Classification: Not a generator, verified

. Waste code: NONE
. Waste name: None

Date form received by agency: 03/11/1985
Site name: CINDERELLA CLEANERS
Classification: Large Quantity Generator

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

NY MANIFEST:
EPA ID: NYD980789564
Country: USA
Location Address 1: 248 FLATBUSH AVE
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY

CINDERELLA CLEANERS (Continued) **1000188071**

Location Zip Code: 11217
Location Zip Code 4: Not reported

Mailing Info:
Name: CINDERELLA CLNRS
Contact: CINDERELLA CLNRS
Address: 248 FLATBUSH AVENUE
City/State/Zip: BROOKLYN, NY 11217
Country: USA
Phone: 718-638-3104

Manifest:

Document ID: NYC7195983
Manifest Status: Not reported
Trans1 State ID: NY83381JN
Trans2 State ID: T21L8DNJ
Generator Ship Date: 03/22/2004
Trans1 Recv Date: 03/22/2004
Trans2 Recv Date: 03/26/2004
TSD Site Recv Date: 03/29/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980789564
Trans1 EPA ID: TXR000050930
Trans2 EPA ID: Not reported
TSDF ID: OHD980587
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00390
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYC7224480
Manifest Status: Not reported
Trans1 State ID: NYAP6277
Trans2 State ID: T771BDNJ
Generator Ship Date: 06/10/2004
Trans1 Recv Date: 06/10/2004
Trans2 Recv Date: 06/18/2004
TSD Site Recv Date: 06/21/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980789564
Trans1 EPA ID: TXR000050930
Trans2 EPA ID: Not reported
TSDF ID: OHD980587
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00390
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.

CINDERELLA CLEANERS (Continued) **1000188071**

Specific Gravity: 01.00
Year: 2004

Document ID: NYC6963737
Manifest Status: Not reported
Trans1 State ID: NYAT8011
Trans2 State ID: 04444V4W
Generator Ship Date: 01/09/2004
Trans1 Recv Date: 01/09/2004
Trans2 Recv Date: 01/16/2004
TSD Site Recv Date: 01/19/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980789564
Trans1 EPA ID: TXR000050930
Trans2 EPA ID: Not reported
TSDF ID: OHD980587
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYC7412343
Manifest Status: Not reported
Trans1 State ID: NY67862JR
Trans2 State ID: Not reported
Generator Ship Date: 12/01/2004
Trans1 Recv Date: 12/01/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/13/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980789564
Trans1 EPA ID: NJD071629976
Trans2 EPA ID: Not reported
TSDF ID: OHD980587
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00390
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYC7230903
Manifest Status: Not reported
Trans1 State ID: NY67862JN
Trans2 State ID: 132TWANJ
Generator Ship Date: 09/03/2004

CINDERELLA CLEANERS (Continued) **1000188071**

Trans1 Recv Date:	09/03/2004
Trans2 Recv Date:	09/10/2004
TSD Site Recv Date:	09/14/2004
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	TXR000050930
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00390
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2004

Document ID:	NYC6898386
Manifest Status:	Not reported
Trans1 State ID:	NY94885JE
Trans2 State ID:	MO001
Generator Ship Date:	12/04/2002
Trans1 Recv Date:	12/04/2002
Trans2 Recv Date:	12/06/2002
TSD Site Recv Date:	12/09/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	MOD095038998
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC5581102
Manifest Status:	Not reported
Trans1 State ID:	NYLP3931
Trans2 State ID:	T39706IL
Generator Ship Date:	03/30/1999
Trans1 Recv Date:	03/30/1999
Trans2 Recv Date:	03/31/1999
TSD Site Recv Date:	04/07/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364

CINDERELLA CLEANERS (Continued) **1000188071**

Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

Document ID:	NYC5512263
Manifest Status:	Not reported
Trans1 State ID:	JE4550NY
Trans2 State ID:	754228NJ
Generator Ship Date:	01/07/1999
Trans1 Recv Date:	01/07/1999
Trans2 Recv Date:	01/13/1999
TSD Site Recv Date:	01/19/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

Document ID:	NYC4198937
Manifest Status:	Completed copy
Trans1 State ID:	NYJE4550
Trans2 State ID:	4295AZ
Generator Ship Date:	07/23/1996
Trans1 Recv Date:	07/23/1996
Trans2 Recv Date:	07/26/1996
TSD Site Recv Date:	07/27/1996
Part A Recv Date:	08/08/1996
Part B Recv Date:	08/14/1996
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060

CINDERELLA CLEANERS (Continued) **1000188071**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC2403753
Manifest Status:	Completed copy
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	07/01/1993
Trans1 Recv Date:	07/01/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/01/1993
Part A Recv Date:	08/26/1993
Part B Recv Date:	07/13/1993
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00120
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2198485
Manifest Status:	Completed copy
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	03/08/1993
Trans1 Recv Date:	03/08/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/08/1993
Part A Recv Date:	03/24/1993
Part B Recv Date:	03/17/1993
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYS2582932

CINDERELLA CLEANERS (Continued) **1000188071**

Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	12/13/1993
Trans1 Recv Date:	12/13/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/13/1993
Part A Recv Date:	/ /
Part B Recv Date:	03/29/1994
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC2504013
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	HW8207NY
Trans2 State ID:	Not reported
Generator Ship Date:	08/26/1993
Trans1 Recv Date:	08/26/1993
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/26/1993
Part A Recv Date:	10/22/1993
Part B Recv Date:	09/24/1993
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00054
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1993

Document ID:	NYC1045258
Manifest Status:	Completed copy
Trans1 State ID:	LP3931NY
Trans2 State ID:	Not reported
Generator Ship Date:	06/21/1991
Trans1 Recv Date:	06/21/1991
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/21/1991
Part A Recv Date:	06/27/1991
Part B Recv Date:	07/02/1991

CINDERELLA CLEANERS (Continued) **1000188071**

Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1991

Document ID:	NYA9534341
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	06/28/1989
Trans1 Recv Date:	06/28/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/28/1989
Part A Recv Date:	07/12/1989
Part B Recv Date:	07/06/1989
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9072718
Manifest Status:	Completed copy
Trans1 State ID:	AY9381
Trans2 State ID:	Not reported
Generator Ship Date:	10/21/1988
Trans1 Recv Date:	10/21/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/21/1988
Part A Recv Date:	11/02/1988
Part B Recv Date:	11/02/1988
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00080
Units:	P - Pounds
Number of Containers:	001
Container Type:	CF - Fiber or plastic boxes, cartons

CINDERELLA CLEANERS (Continued) **1000188071**

Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1988

Document ID: NYA9007514
Manifest Status: Completed copy
Trans1 State ID: LP3931
Trans2 State ID: Not reported
Generator Ship Date: 08/16/1988
Trans1 Recv Date: 08/16/1988
Trans2 Recv Date: / /
TSD Site Recv Date: 08/16/1988
Part A Recv Date: 09/02/1988
Part B Recv Date: 08/22/1988
Generator EPA ID: NYD980789564
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1988

Document ID: NYC6680305
Manifest Status: Not reported
Trans1 State ID: NJXAB6384
Trans2 State ID: NJT853MW
Generator Ship Date: 03/26/2002
Trans1 Recv Date: 03/26/2002
Trans2 Recv Date: 03/28/2002
TSD Site Recv Date: 04/01/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980789564
Trans1 EPA ID: SCR000075150
Trans2 EPA ID: NYD071629976
TSDF ID: OHD980587364
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00195
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2002

Document ID: NYC6730503
Manifest Status: Not reported
Trans1 State ID: 89930JENY
Trans2 State ID: NJT85MW

CINDERELLA CLEANERS (Continued) **1000188071**

Generator Ship Date:	09/10/2002
Trans1 Recv Date:	09/10/2002
Trans2 Recv Date:	09/13/2002
TSD Site Recv Date:	09/13/2002
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	SCR000075150
Trans2 EPA ID:	NJD071629976
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	2002

Document ID:	NYC5521588
Manifest Status:	Not reported
Trans1 State ID:	NYLP3931
Trans2 State ID:	564TUHNJ
Generator Ship Date:	02/04/1999
Trans1 Recv Date:	02/04/1999
Trans2 Recv Date:	02/10/1999
TSD Site Recv Date:	02/16/1999
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD980789564
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	SCD987574647
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00060
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	1999

DRYCLEANERS:

Facility ID:	2-6103-00248
Phone Number:	718-638-3104
Region:	Not reported
Registration Effective Date:	N/A
Inspection Date:	05MAY26
Install Date:	85/05

CINDERELLA CLEANERS (Continued) **1000188071**

Drop Shop: Y
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

BROWNFIELDS:
Program: BCP
Site Code: 465470
Acres: .057
HW Code: C224160
SWIS: 2401
Town: New York City
Update By: MJKOMORO
Site Description: Site Location: The site is located at 248 Flatbush Avenue in Brooklyn, Kings County, and is Block 936 and Lot 12. It is bounded to the east by Flatbush Avenue, to the south by a commercial building, to the west by a small courtyard and residences, and to the north by a liquor store and restaurant. Site Features: The site is a one-story building with a full basement that encompasses the entire property. It is approximately 2,300 square feet in area and is currently vacant. There is no parking associated with the site. The topography of the site is generally flat and the surrounding area slopes gradually to the northwest. The building is serviced by municipal water and sewer. The sewer connection is present in the southeast corner of the basement. The building was formerly heated via fuel oil-fired heating equipment located in the boiler room of the basement. The heating equipment and associated aboveground storage tank (AST) were disconnected and the heating equipment was removed. The closed AST remains in place.Current Zoning/Use(s): The site is located in a R7A residential zone with a C2-4 commercial overlay. This zoning permits both residnetial and commercial uses. The site was most recently used for commercial purposes. Anticipated future use of the site will be commercial and residential, with a structure similar to the architecture of the neighboring buildings on St. Marks Avenue.Historic Uses(s): The building was constructed between 1888 and 1906 and housed a dry cleaner and shoe repair facility for the last twenty years. Previous uses included a dry goods store, book store, closet/wardrobe business and a woodworker. In 2005, an investigation focused on a reported historic leak of cooling water from the first floor dry cleaning machine into the basement boiler room. Based on elevated field instrument readings, it was concluded that the subsurface soil beneath the boiler room was impacted by solvents. Contaminated soil was excavated, under direction of the owner, to a depth of 5 feet below the basement floor. Confirmation sampling resulted in trace levels of volatile organic compounds (VOCs) below the recommended levels in the Departments technical and administrative guidance memorandum (TAGM) 4046 in use at that time. Also in 2005, deeper soil borings were installed in the basement to determine whether groundwater was impacted. (The full basement is approximately 8 to 10 feet in height.) These borings were installed from the basement floor to a depth of 10 feet and sampled continuously for VOCs. No VOCs were detected above the SCOs.Site Geology and Hydrogeology: The topographic elevation of the site vicinity is approximately 70 feet above mean sea level. Soils underlying the site are classified as Urban Land and consist of brown silty fine sand and brown to medium sand with some cobbles and trace fine to medium and coarse gravel. The depth to groundwater beneath

CINDERELLA CLEANERS (Continued) **1000188071**

the site is approximately 60 feet below the basement floor and groundwater flow direction is generally to the northwest. No public water or other supply wells were identified within one-half mile of the site. The nearest body of water is the Gownaus Canal located approximately 0.67 miles west-northwest of the site.

Env Problem: Nature and Extent of Contamination:Based on investigations conducted to date, the primary contaminant of concern is tetrachloroethylene (PCE).Groundwater -In early 2014, three new monitoring wells were installed and sampled to further evaluate on-site groundwater conditions. PCE exceeded the NYS groundwater standard at each of the wells, ranging from 6.4 to 25 parts per billion (ppb). The maximum PCE detection was from a location in the basement directly below the former dry cleaning machine. Petroleum-related VOCs were noted at one well at concentrations slightly exceeding the NYS groundwater standards. Previous groundwater and soil data did not show any petroleum-related VOCs, indicating that these detections are not site related. No SVOCs, pesticides, PCBs or site-related metals exceeded the NYS groundwater standards. Soil -In late 2013, soil sampling was conducted to further evaluate soil conditions near the former dry cleaning machine and the sewer connection. Soil samples were collected from below the basement slab at depths of 5 to 10 feet, with the deeper borings concentrated in areas of potential contamination. (The basement floor is approximiately 8 to 10 feet below ground surface.) All results for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, pesticides and polychlorinated biphenyls (PCBs) were below the Part 375 residential use SCOs. One sample was collected from the limited material present within a concrete box that contained the sewer trap. All results for VOCs were below the NYS Part 375 unrestricted use SCOs.Soil Vapor, Indoor Air and Sub-Slab Vapor -In August 2011, an on-site vapor intrusion investigation included the collection of three sub-slab soil vapor samples, three indoor air samples and one ambient air sample. PCE was detected in the indoor air at concentrations ranging from 1.7 g/m3 to 24.4 g/m3, and in the sub-slab at concentrations ranging from 4,010 g/m3 to 20,800 g/m3. According to the NYSDOH Matrix 2 for PCE, mitigation to minimize vapor intrusion and subsequent human exposures is recommended.In early 2014, an off-site soil vapor, sub-slab soil vapor, and indoor air investigation was conducted to further delineate off-site vapor impacts. At the adjacent court yard, the maximum concentration of PCE in soil vapor was 13 g/m3. Indoor air and sub-slab soil sampling were performed in the basements of two off-site locations southeast and northwest of the site at 254 Flatbush Avenue and 76 St. Marks Avenue. An ambient air sample was also collected from a location outside of 254 Flatbush Avenue. At 254 Flatbush Avenue, PCE in the sub-slab was 3.2ug/m3 and 440 ug/m3; and indoor air was 3.6ug/m3 and 5.7 ug/m3. At 76 St. Marks Avenue, PCE in the sub-slab was ND and 8.4 ug/m3; and indoor air was 1.1 ug/m3. PCE at the ambient air location was 3.9 ug/m3. Further delineation of off-site vapor and groundwater impacts will be completed under the State Superfund Program.

Health Problem: Direct contact with contaminants in soil is unlikely because the site is covered with buildings. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not contaminated by the site. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon

CINDERELLA CLEANERS (Continued) **1000188071**

gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Indoor air impacts that may be the result of soil vapor intrusion have been identified in one on-site building and three off-site structures. Actions are needed to minimize soil vapor intrusion for these structures. Sampling indicates that soil vapor intrusion is a concern for off-site structures and additional investigation is necessary.

Program: BCP
Site Code: 477008
Acres: Not reported
HW Code: C224160A
SWIS: 2401
Town: New York City
Update By: MJKOMORO
Site Description: Site Location: This is an Offsite of the BCP site located at 248 Flatbush Avenue in Brooklyn, Kings County (Block 936 and Lot 12). The following description is for the BCP site. It is bounded to the east by Flatbush Avenue, to the south by NYCDDC's Eastern Parkway Project Resident Engineer's Field office, to the west by a courtyard for a restaurant, and to the north by a liquor store and restaurant. Site Features: The site is a one-story building with a full basement that encompasses the entire property. It is approximately 2,300 square feet and is currently vacant. There is no parking associated with the Site. The topography of the site is generally flat and the surrounding area slopes gradually to the northwest.Current Zoning/Use(s): The site was most recently used for commercial purposes. The buildings to the north appear to have residential apartments located on the floors above the businesses. Historical Uses(s): The building was constructed between 1888 and 1906 and most recently housed a dry cleaner and shoe repair facility for the last twenty years. Previous uses included clothing, book store and the sale of dry goods.Site Geology and Hydrogeology: Soils underlying the site are classified as Urban Land and consist of brown silty fine sand and brown to medium sand with some cobbles and trace fine to medium and coarse gravel. The nearest body of water is the Gownaus Canal located approximately 3,400 feet to the west-northwest of the site that flows into the Gowanus Bay. The site is serviced by city water provided by NYC Municipal Water.
Env Problem: Groundwater -In 2005, sampling results for groundwater indicated that PCE was present at 285 ppb, above the NYS groundwater standard of 5 ppb. In 2011, results indicated that PCE range from 12 ppb to 69 ppm at on-site wells. Additional sampling of on-site groundwater is proposed as part of the RIWP under the BCP.Soil Vapor - In 2007, results from on-site sub-slab sampling detected PCE ranging from 5,000 to 607,000 ug/m3. In 2011, an on-site vapor intrusion investigation was conducted of sub-slab, indoor air and ambient air. PCE was detected in the indoor air at concentrations ranging from 1.7 ug/m3 to 24.4 ug/m3. PCE was detected in the sub-slab at concentrations ranging from 4,010 to 20,800 ug/m3. Later in 2011, a limited off-site vapor intrusion evaluation was conducted at adjacent properties. Six sub-slab, three indoor air, and one ambient air samples were collected at 250 Flatbush Avenue, 252 Flatbush Avenue and 80 St. Marks Street. At 250 Flatbush, PCE was detected in the sub-slab vapor at concentrations ranging from 454 ug/m3 to 1,480 ug/m3; and in indoor air at 12.1 ug/m3. At 252 Flatbush, PCE was detected in the sub-slab vapor at concentrations ranging from 185

CINDERELLA CLEANERS (Continued) **1000188071**

ug/m3 to 450 ug/m3; and in indoor air at 2.67 ug/m3. At 80 St. Marks Avenue, PCE was detected in sub-slab vapor at concentrations ranging from 3,810 ug/m3 to 20,400 ug/m3; and in indoor air at 30.3 ug/m3. According to the NYSDOH Decision Matrix 2 for PCE, the indoor air and sub-slab results at 250 Flatbush Avenue and 80 Marks Street indicate that mitigation is recommended. The results at 252 Flatbush Avenue indicate that monitoring is recommended.

Health Problem: Information submitted with the BCP application regarding the conditions at the site are currently under review and will be revised as additional information becomes available.

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110019747737
Plant name:	CINDERELLA CLEANERS
Plant address:	248 FLATBUSH AVE BROOKLYN, NY 11217
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported

CINDERELLA CLEANERS (Continued) **1000188071**

Date achieved: 00000
Penalty amount: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

CINDERELLA CLEANERS (Continued) **1000188071**

Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT

CINDERELLA CLEANERS (Continued) **1000188071**

Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: UNCLASSIFIED
Repeat violator date: Not reported
Turnover compliance: Not reported

AR269
NNW
1/4-1/2
0.447 mi.
2358 ft.

CONSOLIDATED EDISON
191 WILLOUGHBY ST
BROOKLYN, NY 11201

NY LTANKS **S107523448**
NY MANIFEST **N/A**
NY Spills

Site 1 of 2 in cluster AR

Relative:
Lower

Actual:
39 ft.

LTANKS:
Site ID: 358546
Spill Number/Closed Date: 0512183 / 1/25/2006
Spill Date: 1/20/2006
Spill Cause: Tank Failure
Spill Source: Passenger Vehicle
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 1/20/2006
CID: 409
Water Affected: Not reported
Spill Notifier: Fire Department
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1/24/2006
Spill Record Last Update: 1/25/2006
Spiller Name: UNKNOWN
Spiller Company: UNKNOWN
Spiller Address: UNKNOWN
Spiller City,St,Zip: UNKNOWN, NY
Spiller County: 999
Spiller Contact: PAUL EIDE
Spiller Phone: (718) 476-6288
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 308542

CONSOLIDATED EDISON (Continued) **S107523448**

DEC Memo:	Not reported
Remarks:	CLEAN UP IN PROCESS.

Material:

Site ID:	358546
Operable Unit ID:	1115784
Operable Unit:	01
Material ID:	2105893
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	5
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

NY MANIFEST:

EPA ID:	NYP004151775
Country:	USA
Location Address 1:	191 WILLOUGHBY ST
Location Address 2:	MH 1956
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11201
Location Zip Code 4:	Not reported

Mailing Info:

Name:	CONSOLIDATED EDISON
Contact:	FRANKLYN MURRAY
Address:	4 IRVING PLACE
City/State/Zip:	NEW YORK, NY 10003
Country:	USA
Phone:	212-460-2808

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	07/18/2007
Trans1 Recv Date:	07/18/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004151775
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported

CONSOLIDATED EDISON (Continued) **S107523448**

Quantity:	364
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	3
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001450289FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD006982359
Trans2 State ID:	Not reported
Generator Ship Date:	07/18/2007
Trans1 Recv Date:	07/18/2007
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/18/2007
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYP004151775
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	NYD077444263
Waste Code:	Not reported
Quantity:	102
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2007
Manifest Tracking Num:	001450289FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	Y
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

CONSOLIDATED EDISON (Continued) **S107523448**

SPILLS:

Facility ID:	0704340
Facility Type:	ER
DER Facility ID:	308542
Site ID:	384470
DEC Region:	2
Spill Date:	7/17/2007
Spill Number/Closed Date:	0704340 / 8/20/2007
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	gdbreen
Referred To:	Not reported
Reported to Dept:	7/17/2007
CID:	78
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/18/2007
Spill Record Last Update:	8/20/2007
Spiller Name:	Not reported
Spiller Company:	CON EDISON
Spiller Address:	4 EVERETT PLACE
Spiller City,St,Zip:	MANHATTAN, NY 10003
Spiller Company:	999
Contact Name:	ERTSDESK
Contact Phone:	(212) 580-8383
DEC Memo:	08/20/07 - See eDocs for Con Ed report detailing cleanup and closure.207080. see eDocs
Remarks:	Est. 2 quarts of insulatum oil on 600 gallosn of water in manhole. Manhole # is 1956.No to questions 1-3 and 5. Unknown on #4. 207080

Material:

Site ID:	384470
Operable Unit ID:	1141773
Operable Unit:	01
Material ID:	2131983
Material Code:	0065A
Material Name:	UNKNOWN NON-PETRO/NON-HAZ MATERIAL
Case No.:	Not reported
Material FA:	Other
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

270 NW 1/4-1/2 0.458 mi. 2419 ft. | **TANK TEST FAIL TTF**
404 ALBEE SQ
BROOKLYN, NY | **NY LTANKS** | **S112810196**
N/A

Relative: Lower

Actual: 43 ft.

LTANKS:

Site ID:	477771
Spill Number/Closed Date:	1214526 / Not Reported
Spill Date:	1/11/2013
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	1/11/2013
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	1
Date Entered In Computer:	1/11/2013
Spill Record Last Update:	1/16/2013
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	CHRIS QUINTANA
Spiller Phone:	(347) 397-8298
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	433076
DEC Memo:	Not reported
Remarks:	Tank test failure

Material:

Site ID:	477771
Operable Unit ID:	1227570
Operable Unit:	01
Material ID:	2224991
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

271 South 1/4-1/2 0.461 mi. 2432 ft. | **ECONOMY CLEANERS**
123 5TH AVE
BROOKLYN, NY 11217 | **RCRA-CESQG**
NY LTANKS
NY MANIFEST
US AIRS | **1000318363**
NYD981085053

Relative: Lower

Actual: 41 ft.

RCRA-CESQG:

Date form received by agency:	01/01/2007
Facility name:	ECONOMY CLEANERS
Facility address:	123 5TH AVE BROOKLYN, NY 11217
EPA ID:	NYD981085053
Mailing address:	5TH AVE BROOKLYN, NY 11217
Contact:	Not reported
Contact address:	5TH AVE BROOKLYN, NY 11217
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

ECONOMY CLEANERS (Continued) **1000318363**

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	ECONOMY CLEANERS
Classification:	Conditionally Exempt Small Quantity Generator
Date form received by agency:	07/14/1999
Site name:	ECONOMY CLEANERS
Classification:	Small Quantity Generator
Date form received by agency:	07/15/1985
Site name:	ECONOMY CLEANERS
Classification:	Large Quantity Generator
. Waste code:	NONE
. Waste name:	None
Violation Status:	No violations found

LTANKS:

Site ID:	353099
Spill Number/Closed Date:	0507654 / 11/30/2005
Spill Date:	9/26/2005
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SFRAHMAN
Referred To:	Not reported
Reported to Dept:	9/26/2005
CID:	444
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0

ECONOMY CLEANERS (Continued) **1000318363**

Date Entered In Computer:	9/26/2005
Spill Record Last Update:	11/30/2005
Spiller Name:	KYUNG KANG
Spiller Company:	ECONOMY CLEANERS
Spiller Address:	123 5TH AVE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	KYUNG KANG
Spiller Phone:	(718) 789-2163
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	300392
DEC Memo:	Sangesland called and left a message with a woman (wife?) - language difficulty10.13.05 SR// Sharif sent a ttf letter.11/30/05 Sharif//Milro did the clean up. The concrete floor was not contaminated. They replaced the tank and installed a new one.Waste disposal manifest is included and photographs.NFA required.
Remarks:	TANK HAS A HOLE IN IT : LEAKING IN BASEMENT; TANK IS ROTTED

Material:

Site ID:	353099
Operable Unit ID:	1110569
Operable Unit:	01
Material ID:	2100603
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

NY MANIFEST:

EPA ID:	NYD981085053
Country:	USA
Location Address 1:	123 FIFTH AVE
Location Address 2:	Not reported
Location City:	BROOKLYN
Location State:	NY
Location Zip Code:	11217
Location Zip Code 4:	Not reported

Mailing Info:

Name:	ECONOMY CLNRS
Contact:	ECONOMY CLNRS
Address:	123 FIFTH AVENUE
City/State/Zip:	BROOKLYN, NY 11217
Country:	USA
Phone:	718-783-5386

ECONOMY CLEANERS (Continued) **1000318363**

Manifest:

Document ID:	NYC3982961
Manifest Status:	Completed copy
Trans1 State ID:	GF2859NY
Trans2 State ID:	Not reported
Generator Ship Date:	01/12/1996
Trans1 Recv Date:	01/12/1996
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/16/1996
Part A Recv Date:	01/23/1996
Part B Recv Date:	02/01/1996
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC4280174
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYGF2859
Trans2 State ID:	4392AZ
Generator Ship Date:	09/16/1996
Trans1 Recv Date:	09/16/1996
Trans2 Recv Date:	09/20/1996
TSD Site Recv Date:	09/23/1996
Part A Recv Date:	10/01/1996
Part B Recv Date:	10/18/1996
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	ARD981908551
TSDF ID:	OHD980587364
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1996

Document ID:	NYC0490151
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	09/19/1990
Trans1 Recv Date:	09/19/1990
Trans2 Recv Date:	/ /

ECONOMY CLEANERS (Continued) **1000318363**

TSD Site Recv Date:	09/19/1990
Part A Recv Date:	10/12/1990
Part B Recv Date:	09/27/1990
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYA9851815
Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	12/13/1989
Trans1 Recv Date:	12/13/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/13/1989
Part A Recv Date:	12/26/1989
Part B Recv Date:	12/21/1989
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1989

Document ID:	NYA8961096
Manifest Status:	Completed copy
Trans1 State ID:	NYPP403
Trans2 State ID:	Not reported
Generator Ship Date:	07/25/1988
Trans1 Recv Date:	07/27/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/27/1988
Part A Recv Date:	07/28/1988
Part B Recv Date:	08/02/1988
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135

ECONOMY CLEANERS (Continued) **1000318363**

Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9167321
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	12/15/1988
Trans1 Recv Date:	12/15/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/15/1988
Part A Recv Date:	02/01/1989
Part B Recv Date:	12/22/1988
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9082629
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	09/19/1988
Trans1 Recv Date:	09/19/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/19/1988
Part A Recv Date:	09/28/1988
Part B Recv Date:	09/27/1988
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYC0149139

ECONOMY CLEANERS (Continued) **1000318363**

Manifest Status:	Completed copy
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	03/07/1990
Trans1 Recv Date:	03/07/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	03/07/1990
Part A Recv Date:	03/27/1990
Part B Recv Date:	03/22/1990
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1990

Document ID:	NYC0395278
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	07/20/1990
Trans1 Recv Date:	07/20/1990
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/20/1990
Part A Recv Date:	08/31/1990
Part B Recv Date:	08/03/1990
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1990

Document ID:	NYA8832161
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	05/24/1988
Trans1 Recv Date:	05/24/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/24/1988
Part A Recv Date:	06/03/1988
Part B Recv Date:	06/01/1988

ECONOMY CLEANERS (Continued) **1000318363**

Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA8902282
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	07/01/1988
Trans1 Recv Date:	07/01/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/01/1988
Part A Recv Date:	07/07/1988
Part B Recv Date:	07/12/1988
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1988

Document ID:	NYA9072685
Manifest Status:	Completed copy
Trans1 State ID:	NYPP4503
Trans2 State ID:	Not reported
Generator Ship Date:	10/20/1988
Trans1 Recv Date:	10/20/1988
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/20/1988
Part A Recv Date:	10/28/1988
Part B Recv Date:	10/24/1988
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)

ECONOMY CLEANERS (Continued) **1000318363**

Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1988

Document ID: NYA9007481
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: LP3931
Trans2 State ID: Not reported
Generator Ship Date: 08/16/1988
Trans1 Recv Date: 08/16/1988
Trans2 Recv Date: / /
TSD Site Recv Date: 08/16/1988
Part A Recv Date: 10/03/1988
Part B Recv Date: 08/22/1988
Generator EPA ID: NYD981085053
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1988

Document ID: NYA9123849
Manifest Status: Completed copy
Trans1 State ID: NYPP4503
Trans2 State ID: Not reported
Generator Ship Date: 11/07/1988
Trans1 Recv Date: 11/07/1988
Trans2 Recv Date: / /
TSD Site Recv Date: 11/07/1988
Part A Recv Date: 11/15/1988
Part B Recv Date: 11/17/1988
Generator EPA ID: NYD981085053
Trans1 EPA ID: ILD051060408
Trans2 EPA ID: Not reported
TSDF ID: NYD980785760
Waste Code: F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity: 00135
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 1988

Document ID: NYC3862923
Manifest Status: Completed copy
Trans1 State ID: JE4550NY
Trans2 State ID: Not reported

ECONOMY CLEANERS (Continued) **1000318363**

Generator Ship Date:	05/03/1995
Trans1 Recv Date:	05/03/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	05/03/1995
Part A Recv Date:	05/12/1995
Part B Recv Date:	05/12/1995
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00100
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

Document ID:	NYA9227891
Manifest Status:	Completed copy
Trans1 State ID:	AM6252NY
Trans2 State ID:	Not reported
Generator Ship Date:	01/12/1989
Trans1 Recv Date:	01/12/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	01/12/1989
Part A Recv Date:	01/20/1989
Part B Recv Date:	01/26/1989
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9740711
Manifest Status:	Completed copy
Trans1 State ID:	AY9381NY
Trans2 State ID:	Not reported
Generator Ship Date:	09/19/1989
Trans1 Recv Date:	09/19/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	09/19/1989
Part A Recv Date:	10/06/1989
Part B Recv Date:	09/25/1989
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported

ECONOMY CLEANERS (Continued) **1000318363**

TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYA9586787
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	000000000
Trans2 State ID:	000000000
Generator Ship Date:	07/26/1989
Trans1 Recv Date:	07/26/1989
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/26/1989
Part A Recv Date:	08/28/1989
Part B Recv Date:	08/04/1989
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD051060408
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00135
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1989

Document ID:	NYC3694770
Manifest Status:	Completed copy
Trans1 State ID:	AM1252NY
Trans2 State ID:	Not reported
Generator Ship Date:	10/19/1995
Trans1 Recv Date:	10/19/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/19/1995
Part A Recv Date:	11/02/1995
Part B Recv Date:	10/27/1995
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

ECONOMY CLEANERS (Continued) **1000318363**

Document ID:	NYC3616683
Manifest Status:	Completed copy
Trans1 State ID:	JE4550NY
Trans2 State ID:	Not reported
Generator Ship Date:	07/24/1995
Trans1 Recv Date:	07/24/1995
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/24/1995
Part A Recv Date:	08/04/1995
Part B Recv Date:	08/01/1995
Generator EPA ID:	NYD981085053
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	Not reported
TSDF ID:	NYD980785760
Waste Code:	F002 - HALO SOLV + STILL BOTTOMS FM REC OF SOLV
Quantity:	00195
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	1995

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110004384185
Plant name:	ECONOMY CLEANERS
Plant address:	123 5TH AVE BROOKLYN, NY 112173227
County:	KINGS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	043
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	Not reported
National action type:	Not reported
Date achieved:	Not reported
Penalty amount:	Not reported

Air program:	Not reported
National action type:	Not reported
Date achieved:	Not reported
Penalty amount:	Not reported

ECONOMY CLEANERS (Continued) **1000318363**

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204

ECONOMY CLEANERS (Continued) **1000318363**

Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported

ECONOMY CLEANERS (Continued) **1000318363**

Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: UNCLASSIFIED
Repeat violator date: Not reported
Turnover compliance: Not reported

AR272 **LONG ISLAND UNIVERSITY** **NY LTANKS** **S100879071**
NNW **1 UNIVERSITY PLAZA** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.462 mi.
2440 ft. **Site 2 of 2 in cluster AR**

Relative:
Higher

Actual:
46 ft.

LTANKS:
Site ID: 213429
Spill Number/Closed Date: 9312175 / 1/16/1994
Spill Date: 1/16/1994
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 1/16/1994
Cleanup Meets Standard: True
SWIS: 2401
Investigator: O'DOWD
Referred To: Not reported
Reported to Dept: 1/16/1994
CID: Not reported
Water Affected: Not reported
Spill Notifier: Fire Department
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1/20/1994
Spill Record Last Update: 9/30/2004
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported

LONG ISLAND UNIVERSITY (Continued) **S100879071**

Spiller City,St,Zip:	NN
Spiller County:	999
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	176823
DEC Memo:	Not reported
Remarks:	TRANSFERRING OIL FROM ONE TANK TO ANOTHER, OVERFILL OUT OF VENT - NYCFD & DEP ON SCENE SPILLER NEEDS CONTRACTOR TO CLEAN IT UP - NO CALL BACK. 230/PM BUSY CONTACT # N/A @ KEVIN EASAN #'S.

Material:

Site ID:	213429
Operable Unit ID:	990781
Operable Unit:	01
Material ID:	391168
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	213430
Spill Number/Closed Date:	9312459 / 1/6/1995
Spill Date:	1/24/1994
Spill Cause:	Tank Overfill
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Unable/unwilling Responsible Party. Corrective action taken. (ISR)
Cleanup Ceased:	1/6/1995
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SIGONA
Referred To:	Not reported
Reported to Dept:	1/24/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/28/1994
Spill Record Last Update:	1/6/1995
Spiller Name:	Not reported
Spiller Company:	LONG ISLAND UNIVERSITY
Spiller Address:	1 UNIVERSITY PLAZA
Spiller City,St,Zip:	BROOKLYN, ZZ

LONG ISLAND UNIVERSITY (Continued) **S100879071**

Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	176823
DEC Memo:	Not reported
Remarks:	SPILL OCURRED WHEN THE OPERATOR LEFT THE TANKS UNATTENDED DURING FUEL TRANSFER OPERATION, NYC FD, CON-EDISON, DEPT ABC CONTRACTOR TO CLEAN UP THE SPILL. DEC SIGONA INVESTIGATED SPILL SITE/CLEANUP

Material:

Site ID:	213430
Operable Unit ID:	991085
Operable Unit:	01
Material ID:	387890
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	125
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	0501117
Facility Type:	ER
DER Facility ID:	176823
Site ID:	344263
DEC Region:	2
Spill Date:	4/27/2005
Spill Number/Closed Date:	0501117 / 4/29/2005
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	SMSANGES
Referred To:	Not reported
Reported to Dept:	4/27/2005
CID:	444
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/27/2005
Spill Record Last Update:	4/29/2005

LONG ISLAND UNIVERSITY (Continued) **S100879071**

Spiller Name:	KATHY OSULLIVAN
Spiller Company:	LONG ISLAND UNIVERSITY
Spiller Address:	1 UNIVERSITY PLAZA
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	KATHY OSULLIVAN
Contact Phone:	(718) 488-1079
DEC Memo:	Sangesland spoke to Kathy O'Sullivan at LI Univ.She says there was some type of leak from a pipe in the building.Sangesland spoke to Petroleum Tank Cleaners - They were on the site working on cleanup.4/29/2005 PTC says 200 gal of water was pumped out with a sheen of oil on the top.Spill was confined to a pit in the boiler room. All work was complete. SS
Remarks:	THINK MAYBE A PIPE LEAKED UNDERGROUND;

Material:

Site ID:	344263
Operable Unit ID:	1102912
Operable Unit:	01
Material ID:	583132
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	100
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9313220
Facility Type:	ER
DER Facility ID:	176823
Site ID:	213431
DEC Region:	2
Spill Date:	2/7/1994
Spill Number/Closed Date:	9313220 / 2/8/1994
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	2/8/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/8/1994
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

LONG ISLAND UNIVERSITY (Continued) **S100879071**

Date Entered In Computer:	2/8/1994
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	WHALCO OIL
Spiller Address:	1 COFFEY ST.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"
Remarks:	DRIVER OPENED AIR VENT ON TRUCK IT WAS BACKED UP AND SPILLED ONTO SIDEWALK - SPEEDI DRI APPLIED AND PICKED UP - NO OTHER AGENCIES ON SITE, NO CALL BACK -

Material:

Site ID:	213431
Operable Unit ID:	991671
Operable Unit:	01
Material ID:	388610
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0608365
Facility Type:	ER
DER Facility ID:	176823
Site ID:	372355
DEC Region:	2
Spill Date:	10/21/2000
Spill Number/Closed Date:	0608365 / 10/23/2006
Spill Cause:	Human Error
Spill Class:	Known release that creates a file or hazard. (Highly Improbable)
SWIS:	2401
Investigator:	rmpiper
Referred To:	Not reported
Reported to Dept:	10/21/2006
CID:	74
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	10/23/2006

LONG ISLAND UNIVERSITY (Continued) **S100879071**

Spill Record Last Update:	10/23/2006
Spiller Name:	MICHAEL NG
Spiller Company:	LONG ISLAND UNIVERSITY
Spiller Address:	1 UNIVERSITY PLAZA
Spiller City,St,Zip:	BROOKLYN, NY 11201
Spiller Company:	001
Contact Name:	MICHAEL NG
Contact Phone:	(347) 249-4860
DEC Memo:	DECP iper contacted notifier. As per Michael. unknown cause of explosion. Chemicals were on floor and cleaned by Haz Mat team. CLosed.
Remarks:	explosion in lab at the universityFrom 2 hazardous waste bottles - bottles exploded under sink - destroyed secondary containment and sink pipespilled onto classroom floor - dry absorbants were applied - evacuation of 10 students and facultyRM M715acetoneethyl acetate hydrochloric acid - 2.4 litresnitric acid 2.5 litresHexate

Material:

Tank Test:

Facility ID:	0811715
Facility Type:	ER
DER Facility ID:	176823
Site ID:	409298
DEC Region:	2
Spill Date:	1/26/2009
Spill Number/Closed Date:	0811715 / 5/12/2009
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	smsanges
Referred To:	Not reported
Reported to Dept:	1/26/2009
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/26/2009
Spill Record Last Update:	5/12/2009
Spiller Name:	GODFREY CHEEPING
Spiller Company:	LONG ISLAND UNIVERSITY
Spiller Address:	1 UNIVERSITY PLAZA
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	999
Contact Name:	GODFREY CHEEPING
Contact Phone:	(631) 889-1533
DEC Memo:	Cleanup is complete - Environmental Company will steam clean and epoxy paint "soon"Triumverate Environmental - "Dan" 718-274-3339

LONG ISLAND UNIVERSITY (Continued) **S100879071**

"Alishia" Overfilled the tank. Oil came out of the manhole and was contained within the vault.5/12/2009 Sangesland reviewed a closure report prepared by Triumvirate Environmental.Report estimates that 80 to 100 gal of oil had spilled in the vault area. It was Triumverate's opinion that the tank had been overfilled based on the taining pattern on the sides of the tank. On Feb 10th Triumvirate returned to the site to pressure wash the tank vault floor/walls. After cleaning, staining was still evident, but was not treated further. See eDocs for Triumverate's report.

Remarks: CALLER STATES THAT THERE MAY HAVE BEEN AN OVERFILL OF PRODUCT TO A TANK. PRODUCT IS CONTAINED TO THE VAULT. CLEAN UP IS PENDING. UNK AMOUNT.

Material:

Site ID:	409298
Operable Unit ID:	1165804
Operable Unit:	01
Material ID:	2157226
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

273
SSE
1/4-1/2
0.466 mi.
2462 ft.

SMITH RESIDENCE
99 ST MARKS AVE
BROOKLYN, NY

NY LTANKS **S106971444**
N/A

Relative:
Higher

Actual:
75 ft.

LTANKS:

Site ID:	332977
Spill Number/Closed Date:	0408289 / 12/20/2004
Spill Date:	10/27/2004
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	10/27/2004
CID:	444
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/27/2004

SMITH RESIDENCE (Continued) **S106971444**

Spill Record Last Update: 12/20/2004
Spiller Name: MRS SMITH
Spiller Company: SMITH RESIDENCE
Spiller Address: 99 ST MARKS AVE
Spiller City,St,Zip: BROOKLYN, NY
Spiller County: 001
Spiller Contact: MRS SMITH
Spiller Phone: (718) 638-5901
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 268202
DEC Memo: 10/27/04. S. Sagesland attempted to contact Mrs. Smith over the phone several times. However, the phone is busy.10/28/04. J.Krimgold spoke to Petro Oil (Karen)@ (516)686-2027. She stated that the castomer complaint about no oil in the tank just a few days after delivery.12/20/04. J.Krimgold attempted to contact the RP (Mrs. Smith). However, the phone is busy.J.Krimgold spoke to Petro Oil. According to their records a new AST was installed at this site on 11/26/04. No info regarding the old tank.J.Krimgold spoke with Mr. Ralph Litao (Trade Service) 917-881-5554. He stated that his co. excavated the top of the tank, pumped out about 450 gal of oil and then closed the tank in-place by filling it with concrete slurry after cleaning up the tank. The tank appear to be in a good condition with no apparent holes or bad seams. The problem was with a gloged product line. Mrs. Smith assumed that oil is not comming to the boiler because there are no product in the tank and that product was leaked out. NFA.
Remarks: HOLES IN TANK, PETRO OIL ON SCENE:

Material:
Site ID: 332977
Operable Unit ID: 1095175
Operable Unit: 01
Material ID: 575313
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

274 NNE 1/4-1/2 0.468 mi. 2473 ft. | **24-41 WALLACE AVE**
24-41 WALLACE AVE
NYC, NY | **NY LTANKS** | **S102663012**
N/A

Relative: Higher

Actual: 64 ft.

LTANKS:

Site ID:	265206
Spill Number/Closed Date:	9702096 / 5/19/1997
Spill Date:	5/19/1997
Spill Cause:	Tank Overfill
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	0301
Investigator:	SMMARTIN
Referred To:	Not reported
Reported to Dept:	5/19/1997
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Local Agency
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/19/1997
Spill Record Last Update:	5/21/1997
Spiller Name:	JEFF WASS
Spiller Company:	NYC BOARD OF EDUCATION
Spiller Address:	24-41 WALLACE AVE
Spiller City,St,Zip:	NYC, NY 10467-
Spiller County:	001
Spiller Contact:	JEFF VASS
Spiller Phone:	(718) 653-0694
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	216101
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"
Remarks:	been cleaned up-nothing further added by caller

Material:

Site ID:	265206
Operable Unit ID:	1044808
Operable Unit:	01
Material ID:	335030
Material Code:	0003A
Material Name:	#6 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	6
Units:	Gallons
Recovered:	6
Resource Affected:	Not reported
Oxygenate:	False

24-41 WALLACE AVE (Continued) **S102663012**

Tank Test:

275
East
1/4-1/2
0.470 mi.
2484 ft.

375 VANDERBILT AVE/BKLYN
375 VANDERBILT AVENUE
NEW YORK CITY, NY

NY LTANKS **S102671468**
N/A

Relative:
Higher

Actual:
92 ft.

LTANKS:

Site ID:	242497
Spill Number/Closed Date:	8909323 / 12/24/1989
Spill Date:	12/23/1989
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported
Cleanup Ceased:	12/24/1989
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	12/24/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	1/24/1990
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	PUBLIC FUEL SERVICE
Spiller Address:	740 JAMAICA AVENUE
Spiller City,St,Zip:	BROOKLYN, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	199277
DEC Memo:	Not reported
Remarks:	PUBLIC FUEL SERVICE SENDING SOMEONE TO CLEAN UP SPILL WITH SPEEDY DRY. Not reported

Material:

Site ID:	242497
Operable Unit ID:	934257
Operable Unit:	01
Material ID:	442489
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	No

375 VANDERBILT AVE/BKLYN (Continued) **S102671468**

Resource Affected: Not reported
Oxygenate: False

Tank Test:

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276 WNW 1/4-1/2 0.476 mi. 2515 ft. | **HORSEMEN ANTIQUE TTF 351 ATLANTIC AVE BROOKLYN, NY** | **NY LTANKS** | **S113820411 N/A**

Relative: Lower

Actual: 35 ft.

LTANKS:

Site ID:	485578
Spill Number/Closed Date:	1305024 / 10/9/2013
Spill Date:	8/8/2013
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Not reported
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	vszhune
Referred To:	Not reported
Reported to Dept:	8/8/2013
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	8/8/2013
Spill Record Last Update:	10/16/2013
Spiller Name:	Not reported
Spiller Company:	DONALD GIHNCRETTH
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	DONALD GIHNCRETTH
Spiller Phone:	(718) 598-1310
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	440705
DEC Memo:	08/9/13- John Bonanno called and said the remote fill line is corrored and need to be replace.9/7/13- As per Arlene Gianchetta (Owner's wife). They are refinancing the building and the bank recommended to the owner to hire ARRCO to test the oil tank.9/7/13-Arlene sent an email with invoice of the company (Harris Plumbing $ Heating) that fixed the fill line dated 8/15/13. The invoice stated the following:Cut out and discard the defective 2" oil line into the existing oil tamk. Installed a new 2" oil fill line from the tank up to the cellar door stairway instead of up the first street level.9/7/13-Arlene sent an email with result of the tightness test performed after the line was fixed and dated 8/19/13.The system was tested by Petroleum Tank Cleaner. The result indicated the system passed the test. 9/10/13-Zhune visited the site. Based on the

HORSEMEN ANTIQUE TTF (Continued) **S113820411**

inspection spill closed.
Remarks: tank test fail

Material:
Site ID: 485578
Operable Unit ID: 1235236
Operable Unit: 01
Material ID: 2234428
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: Not reported
Units: Not reported
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

277 WNW 1/4-1/2 0.478 mi. 2524 ft. | **NYC DEPT. OF SOC. SER.BDG** | **NY LTANKS** | **S103558972**
210 LIVINGSTON STREET | **NY Spills** | **N/A**
BROOKLYN, NY

Relative: Lower

Actual: 43 ft.

LTANKS:
Site ID: 71747
Spill Number/Closed Date: 0311816 / 3/6/2006
Spill Date: 1/21/2004
Spill Cause: Tank Test Failure
Spill Source: Commercial/Industrial
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 2401
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 1/21/2004
CID: 444
Water Affected: Not reported
Spill Notifier: Tank Tester
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 1/21/2004
Spill Record Last Update: 3/6/2006
Spiller Name: Not reported
Spiller Company: Not reported
Spiller Address: Not reported
Spiller City,St,Zip: ***Update***, ZZ
Spiller County: 001
Spiller Contact: MRS. WILSON

NYC DEPT. OF SOC. SER.BDG (Continued) **S103558972**

Spiller Phone:	(718) 234-6348
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	67847
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SANGESLAND"Sent TTF letter3/6/2006 According to PBS records, this tank was retested on 8/16/2004 and passed. No details on what work was done to repair tank/lines
Remarks:	CLEAN TANK OUT AND RETEST

Material:

Site ID:	71747
Operable Unit ID:	879408
Operable Unit:	01
Material ID:	497059
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	71747
Spill Tank Test:	1528925
Tank Number:	1
Tank Size:	10000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Horner EZ Check I or II

Site ID:	71749
Spill Number/Closed Date:	9812016 / 3/19/1999
Spill Date:	12/24/1998
Spill Cause:	Tank Test Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	12/24/1998
CID:	266
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False

NYC DEPT. OF SOC. SER.BDG (Continued) **S103558972**

UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/24/1998
Spill Record Last Update:	3/19/1999
Spiller Name:	RALPH MANGANELLO
Spiller Company:	CITY OF NEW YORK
Spiller Address:	Not reported
Spiller City,St,Zip:	NEW YORK, NY
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	67847
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"2/23/99Spoke to Morris KreppelAfter repair the manhole manifold, they retested the tank and it passed. He will submit paperwork for my review. 3/1/99Spoke to Morris Kreppel. After installing a new gasket, the tank passed the retest. Phil Lodico, enforcement attny in Albany, got involved after 3 notices that the tank was overdue for testing. Apparently the city operates the tank so Kreppel forwarded the notices to the city who then ignored them. Currently being fined $11K, $10K of which will be waived if they comply within 60 days. Told Kreppel that he needs to submit an exposure affadavit complete with whether or not contamination was encountered during the work. 3/19/99Spill closed as per 3/4/99 letter from ABC Tank signed by Mark Salamack indicating that a gasket, nuts and bolts were replaced on the manhole and the system passed the HEZ3 retest and that no contamination was discovered during repairs.
Remarks:	TANK TEST PERFORMED ON BEHALF OF COMMERCIAL COOLING SERVICE, HELEN, (718) 492-2100. COMMERCIAL COOLING TO BE GIVEN A QUOTE FOR ISOLATING AND RETESTING THE TANK ONLY.

Material:

Site ID:	71749
Operable Unit ID:	1072672
Operable Unit:	01
Material ID:	569280
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	71749
Spill Tank Test:	1546697
Tank Number:	1
Tank Size:	10000
Test Method:	03
Leak Rate:	0
Gross Fail:	F

NYC DEPT. OF SOC. SER.BDG (Continued) **S103558972**

Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

SPILLS:

Facility ID:	0212765
Facility Type:	ER
DER Facility ID:	67847
Site ID:	317221
DEC Region:	2
Spill Date:	3/25/2003
Spill Number/Closed Date:	0212765 / 5/5/2003
Spill Cause:	Unknown
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	AERODRIG
Referred To:	Not reported
Reported to Dept:	3/25/2003
CID:	270
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Affected Persons
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	3/25/2003
Spill Record Last Update:	5/5/2003
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ -
Spiller Company:	001
Contact Name:	CALLER
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "RODRIGUEZ"Con Ed e2mis #147661:3/25/03=0915HRSNETW. REPORTS FOUND APPROX 1-PINT OF UNKNOWN OIL ON 400 GALLONS OF WATER IN V5636. UNIT IS SCH.TO BE REPLACED. FEEDER 1B53. 1-SAMPLE TAKEN ENVIR TAG #08280 PLACED. CLEANUP PENDING TEST RESULT. RECORDS SHOW 15PPM DATED 5/19/95UPDATE: 25-MAR-2003 2116HRS LAB RESULTS RETURNED LSN # 03-02464-001 <1.0 PPMUPDATE 3-26-03 0200 HRS K. HUFFORD MECH "A" FLUSH DEPT REPORTS THEY REMOVED ALMOST ALL THE LIQUID FROM STRUCTURE ,WAS UNABLE TO FINISH REMOVING ALL THE LIQUID DUE TO CUSTOMER COMPLAINED. E.S.TAG LEFT IN PLACED. PENDING REMOVALOF TRANSF AND CLEANUP. From: Fernandez, CelestinoSent: Sunday, March 30, 2003 6:06 PMTo: Neville, ChristineSubject: Oil incident # 1476611830 hrs Op. Supv., C.Fernandez, Env. Ops. reports that at 1630 hrs Mr. Lipori (11179) removed env tag # 8280 from VS5636 after unit was removed by Networks crew. Structure was double washed with BioGen 760. Mr. Lipori also found a cemented sump in the structure.Aroclor 1248 122.2 ppm EPA 608/8082From: Van Sertima, LeslieSent: Wednesday, March 26, 2003 6:34 AMLab Sequence Number: 03-02483-002 Date Approved:

NYC DEPT. OF SOC. SER.BDG (Continued) **S103558972**

Remarks: 3/26/2003E2 Incident Number: 147666 Date Received: 3/25/2003Chain of Custody ID: CC15529 Date Sampled: 3/25/2003MATRIX: OIL GRABLOCATION: S/E/C SMITH ST + WYCKOFF STSTRUCTURE: MANHOLE 02505 FEEDER ID:Flash Point, PMCC > 140 deg F D93-00/EPA 1010UPDATE: 26-MAR-2003 2100HRS. TUDY REPORTS DOUBLE WASHED WITH BIO GEN 760. REMOVED ALL LIQUIDS . REMOVED 2 DRUMS SOLIDS. NOSUMP OR DRAIN IN STRUCTURE. REMOVED TAG # 34125UPDATE OS. WALKER REPORTS: Walker, Arthur WSent: Wednesday, March 26, 2003 9:32 PMTo: Vesce, Edward; Alvarado, Walter; Saladino, RobertSubject: over 50 m.h. 02505 on smith & wyckoffEnvironmental Detailed Incident Report3/26/03 21:30 HRS.-- A.WALKER, O.S. BROOKLYN ENV.OPS,REPORTS 265 GAL. OF LIQUID REMOVED BY "OVER 50" CON ED TANKER. 2 DRUMS OFSOLID DEBRIS REMOVED. NO DRAIN OR SUMP FOUND.DOUBLE WASHED WITH BIOGEN 760. REMOVED ENV. STOP TAG #34125 JOB COMPLETE on 400 gals water. 147661 clean up pending.

Material:

Site ID:	317221
Operable Unit ID:	866217
Operable Unit:	01
Material ID:	512488
Material Code:	0066A
Material Name:	UNKNOWN PETROLEUM
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9414410
Facility Type:	ER
DER Facility ID:	67847
Site ID:	71748
DEC Region:	2
Spill Date:	2/1/1995
Spill Number/Closed Date:	9414410 / 2/1/1995
Spill Cause:	Equipment Failure
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	KSTANG
Referred To:	Not reported
Reported to Dept:	2/1/1995
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Institutional, Educational, Gov., Other
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/1/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0

NYC DEPT. OF SOC. SER.BDG (Continued) **S103558972**

Date Entered In Computer:	2/2/1995
Spill Record Last Update:	1/9/2004
Spiller Name:	Not reported
Spiller Company:	COASTAL REFINING
Spiller Address:	3170 COLLEGE PT. BLVD.
Spiller City,St,Zip:	FLUSHING, NY 11354
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"
Remarks:	ORDERED 5,000 GAL. AND AT 4200 THE TANK BEGAN TO OVERFILL, COASTAL HAS CREW ON WAY TO CLEAN UP OIL ON SIDEWALK.

Material:

Site ID:	71748
Operable Unit ID:	1011820
Operable Unit:	01
Material ID:	373151
Material Code:	0002A
Material Name:	#4 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

278
NNW
1/4-1/2
0.479 mi.
2527 ft.

NYTEL **NY LTANKS** **S106703334**
101 FLEET PL **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
47 ft.

LTANKS:

Site ID:	164754
Spill Number/Closed Date:	8902455 / 6/23/2004
Spill Date:	6/8/1989
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release that creates a file or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMROMMEL
Referred To:	Not reported
Reported to Dept:	6/9/1989
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True

NYTEL (Continued) **S106703334**

Remediation Phase:	0
Date Entered In Computer:	6/9/1989
Spill Record Last Update:	7/26/2004
Spiller Name:	ROGER BEAUDRY
Spiller Company:	NY TELEPHONE
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	138898
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "ROMMEL"3/04/2003 - Closed Due To The Nature / Extent Of The Spill Report02/17/04 - Reopened Because A File Exists. Transfered To Tibbe.06/23/04 - Reviewed file. OK to close. Rommel
Remarks:	ONE 2K TANK, AIR PRESSURE LOSS = 4LBS. FOUR 550 GAL TANKS - PRESSURE LOSS = 3LBS.

Material:

Site ID:	164754
Operable Unit ID:	929897
Operable Unit:	01
Material ID:	450157
Material Code:	0009
Material Name:	Gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Pounds
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	164754
Spill Tank Test:	1535564
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

279 ESE 1/4-1/2 0.479 mi. 2528 ft. | **ATLANTIC AVE AT CARLTON**
ATLANTIC AVE AT CARLTON
BROOKLYN, NY | **NY LTANKS** | **S102619286**
N/A

Relative: Higher

Actual: 65 ft.

LTANKS:

Site ID:	330576
Spill Number/Closed Date:	9701786 / 2/24/2003
Spill Date:	5/10/1997
Spill Cause:	Tank Failure
Spill Source:	Commercial Vehicle
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	TOMASELLO
Referred To:	Not reported
Reported to Dept:	5/10/1997
CID:	322
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	5/10/1997
Spill Record Last Update:	2/24/2003
Spiller Name:	KEVIN HEATHER
Spiller Company:	MYSTIC TRANSPORTATION
Spiller Address:	1901 STEINWAY ST
Spiller City,St,Zip:	ASTORIA, NY 11105-
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	265901
DEC Memo:	Not reported
Remarks:	TANK WAS LEAKING FROM TOP OF TANK - SPILL INTO STREET - FD ONSCENE AND SPILL CLEANED UP

Material:

Site ID:	330576
Operable Unit ID:	1044397
Operable Unit:	01
Material ID:	338329
Material Code:	0012A
Material Name:	Kerosene
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	2
Units:	Gallons
Recovered:	2
Resource Affected:	Not reported
Oxygenate:	False

ATLANTIC AVE AT CARLTON (Continued) **S102619286**

Tank Test:

280
SSW
1/4-1/2
0.481 mi.
2538 ft.

RINALDI RECYCLING CO.
326 DOUGLASS STREET
BROOKLYN, NY 11217

NY SWRCY **S105842286**
N/A

Relative:
Lower

Actual:
25 ft.

SWRCY:

Region:	2
Facility Address 2:	Not reported
Phone Number:	7185226648
Owner Type:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	DOMINICK RINALDI
Contact Address:	Not reported
Contact Address 2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	RHRF - registration
Activity Number:	[24MA9]
Active:	No
East Coordinate:	585977
North Coordinate:	4503566
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Permit #:	Not reported
Auth. Date:	Not reported
Expiration Date:	Not reported
Waste Types:	Not reported

281
NW
1/4-1/2
0.481 mi.
2540 ft.

APARTMENT BUILDING
1 HOYT STREET
BROOKLYN, NY

NY LTANKS **S106971653**
N/A

Relative:
Lower

Actual:
43 ft.

LTANKS:

Site ID:	334048
Spill Number/Closed Date:	0409183 / 3/8/2005
Spill Date:	11/11/2004
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	CESAWYER

APARTMENT BUILDING (Continued) **S106971653**

Referred To:	Not reported
Reported to Dept:	11/11/2004
CID:	407
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	11/19/2004
Spill Record Last Update:	5/31/2005
Spiller Name:	Not reported
Spiller Company:	UNKNOWN
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller County:	999
Spiller Contact:	RICKY CHIRRA
Spiller Phone:	(917) 238-2100
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	269255
DEC Memo:	02/28/05 - Sawyer - On the 11/11/04, I responded to the address above to find a overfill spill that had impacted a stairwell as well as the entrance way to the building. The spill impacted 3 flights and the maintenance workers were trying to handle the problem. I suggested the realty company get a professional cleanup company. I will follow up to see if this suggestion was taken.03/08/05 - Sawyer - Received information on the spill clean up from Richard Chirra with management company. No further action required on this spill.
Remarks:	STAIN

Material:

Tank Test:

282
WSW
1/4-1/2
0.488 mi.
2577 ft.

BASIN HAULAGE INC. I **NY SWF/LF** **S105841893**
462-470 BALTIC STREET **N/A**
BROOKLYN, NY 11217

Relative:
Lower

Actual:
13 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	2
Phone Number:	7188210310
Owner Name:	Not reported
Owner Type:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	STEPHEN SPALLINO; PRESIDENT
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported

BASIN HAULAGE INC. I (Continued) **S105841893**

Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	C&D processing - registration
Activity Number:	[24W22]
Active:	No
East Coordinate:	585620
North Coordinate:	4504031
Accuracy Code:	Not reported
Regulatory Status:	Not reported
Waste Type:	Not reported
Authorization #:	2-6103-00054
Authorization Date:	Not reported
Expiration Date:	Not reported

283
East
1/4-1/2
0.492 mi.
2597 ft.

RESIDENTS 420 CLINTON AVE **NY LTANKS** **S103824098**
420 CLINTON AVE & GREENE **N/A**
BROOKLYN, NY

Relative:
Higher

Actual:
86 ft.

LTANKS:

Site ID:	183388
Spill Number/Closed Date:	9813604 / 3/5/1999
Spill Date:	2/7/1999
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	SACCACIO
Referred To:	Not reported
Reported to Dept:	2/7/1999
CID:	282
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/7/1999
Spill Record Last Update:	10/23/2002
Spiller Name:	Not reported
Spiller Company:	UNKNOWN FOR NOW
Spiller Address:	SAME
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	DISPATCHER 327
Spiller Phone:	(718) 965-8300
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	153628
DEC Memo:	Not reported
Remarks:	THEY HAVE A UNDERGROUND TANK THAT IS LEAKING OIL INTO THE SEWER.NYCFIRE DEPT WAS ON THE SCENE.A STEVE SACCACIO WAS NOTIFIED BY DEP ALSO.

RESIDENTS 420 CLINTON AVE (Continued) **S103824098**

Material:

Site ID:	183388
Operable Unit ID:	1071137
Operable Unit:	01
Material ID:	310316
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

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284 West 1/4-1/2 0.492 mi. 2599 ft.

JOEL VENGRIN
155 BERGEN STREET
BROOKLYN, NY

NY LTANKS **S106471511**
N/A

Relative: Lower

Actual: 18 ft.

LTANKS:

Site ID:	265474
Spill Number/Closed Date:	0400986 / 6/1/2004
Spill Date:	4/28/2004
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	2401
Investigator:	JMKRIMGO
Referred To:	Not reported
Reported to Dept:	4/28/2004
CID:	407
Water Affected:	Not reported
Spill Notifier:	Citizen
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	4/28/2004
Spill Record Last Update:	6/10/2004
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	MILGA MORALES
Spiller Phone:	(914) 747-1233
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	216312

JOEL VENGRIN (Continued) **S106471511**

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "KRIMGOLD"4/28/04. All State is an insurance carrier for home owner hired Milro to clean up. They found cracks on the concrete floor slab and belief that some oil went through. YK.5/10/04. J.Krimgold spoke to Poul (Milro). They removed concrete around cracks and found substantial soil contamination. Currently they excavated 6'x6' area to the depth of 3-4' and will take post excavation samples. 6/01/04. J.Krimgold spoke to Poul (Milro). Soil analytical show some contaminants above TAGM levels. However, due to a construction constraints further excavation is not feasible. Agreed to cease excavation, apply bio nutrients into excavation pit, fill with clean soil, seal with concrete and epoxy paint. NFA.

Remarks: Tank has a hole in it which caused the leak. The spill is currently being cleaned up.

Material:

Site ID:	265474
Operable Unit ID:	882925
Operable Unit:	01
Material ID:	492217
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AS285 **280 DOUGLAS STREET** **NY LTANKS** **S101341149**
SW **280 DOUGLAS STREET** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.493 mi.
2605 ft. **Site 1 of 2 in cluster AS**

Relative:
Lower

Actual:
20 ft.

LTANKS:

Site ID:	160988
Spill Number/Closed Date:	9410669 / 3/10/1995
Spill Date:	11/10/1994
Spill Cause:	Tank Test Failure
Spill Source:	Commercial/Industrial
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	3/10/1995
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	11/10/1994
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported

280 DOUGLAS STREET (Continued) **S101341149**

Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	12/8/1994
Spill Record Last Update:	4/17/1995
Spiller Name:	Not reported
Spiller Company:	PENSKE TRUCK
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	105739
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
Remarks:	TO EX-TANK AFTER PUMPING OUT

Material:

Site ID:	160988
Operable Unit ID:	1008534
Operable Unit:	01
Material ID:	376536
Material Code:	0022
Material Name:	Waste Oil/Used Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1
Units:	Not reported
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	160988
Spill Tank Test:	1543335
Tank Number:	Not reported
Tank Size:	0
Test Method:	00
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Spills
Last Modified:	10/1/2004
Test Method:	Unknown

SPILLS:

Facility ID:	9415530
Facility Type:	ER
DER Facility ID:	105739
Site ID:	160989
DEC Region:	2
Spill Date:	2/28/1995
Spill Number/Closed Date:	9415530 / 3/1/1995
Spill Cause:	Equipment Failure

280 DOUGLAS STREET (Continued) **S101341149**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	2/28/1995
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	3/1/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/20/1995
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	WHALECO FUEL
Spiller Address:	1 COFFEY ST
Spiller City,St,Zip:	BROOKLYN, NY 11231
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
Remarks:	BAD GAUGE WHEN FILLING - PRODUCT VENTED ONTO THE ROOF OF THE BUILDING. 7-10 PEOPLE FROM WHALECO FUEL THERE NOW TO CLEAN UP. PETROLEEUM TANK CLEANERS WAS UP ON ROOF.

Material:

Site ID:	160989
Operable Unit ID:	1008973
Operable Unit:	01
Material ID:	370713
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	40
Units:	Gallons
Recovered:	40
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9415539
Facility Type:	ER
DER Facility ID:	105739
Site ID:	121831
DEC Region:	2
Spill Date:	2/28/1995
Spill Number/Closed Date:	9415539 / 2/28/1995
Spill Cause:	Equipment Failure

280 DOUGLAS STREET (Continued) **S101341149**

Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	MCTIBBE
Referred To:	Not reported
Reported to Dept:	2/28/1995
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Federal Government
Cleanup Ceased:	2/28/1995
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	4/20/1995
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	WHALECO
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIBBE"
Remarks:	VENT LINE OVERFILLED DUE TO BAD GAUGE

Material:

Site ID:	121831
Operable Unit ID:	1008983
Operable Unit:	01
Material ID:	370722
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	40
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	9310083
Facility Type:	ER
DER Facility ID:	105739
Site ID:	121830
DEC Region:	2
Spill Date:	11/18/1993
Spill Number/Closed Date:	9310083 / 11/18/1993
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

280 DOUGLAS STREET (Continued) **S101341149**

SWIS:	2401
Investigator:	O'DOWD
Referred To:	Not reported
Reported to Dept:	11/18/1993
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	11/18/1993
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	11/19/1993
Spill Record Last Update:	9/30/2004
Spiller Name:	Not reported
Spiller Company:	WHALECO OIL CO.
Spiller Address:	1 COFFEY ST.
Spiller City,St,Zip:	BROOKLYN, NY
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported
DEC Memo:	Not reported
Remarks:	DRIVER HOOKED UP TO THE WRONG TANK. WHALECO USED SPEEDY DRY AND SORBENTS TO CLEAN IT UP. NO CALL BACK.

Material:

Site ID:	121830
Operable Unit ID:	991794
Operable Unit:	01
Material ID:	392716
Material Code:	0008
Material Name:	Diesel
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	15
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AS286 **280 DOUGLAS ST/PENSKE** **NY LTANKS** **S102671834**
SW **280 DOUGLAS ST/PENSKE** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.495 mi.
2614 ft. **Site 2 of 2 in cluster AS**

Relative:
Lower

Actual:
21 ft.

LTANKS:

Site ID:	280189
Spill Number/Closed Date:	9112095 / 3/3/1992
Spill Date:	2/25/1992
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Not reported

280 DOUGLAS ST/PENSKE (Continued) **S102671834**

Cleanup Ceased:	3/3/1992
Cleanup Meets Standard:	True
SWIS:	2401
Investigator:	SJMILLER
Referred To:	Not reported
Reported to Dept:	2/25/1992
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Affected Persons
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/2/1992
Spill Record Last Update:	3/4/1992
Spiller Name:	Not reported
Spiller Company:	OIL INDUSTRIAL LTD CO
Spiller Address:	336 9TH ST
Spiller City,St,Zip:	BROOKLYN, NY 11215
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	227495
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MILLER"
Remarks:	CONTAINED ON PAVEMENT. 1 GALLON TO STORM DRAIN, POSSIBLY. NYCFD ON SITE, NYCDEP NOTIFIED.

Material:

Site ID:	280189
Operable Unit ID:	965689
Operable Unit:	01
Material ID:	417082
Material Code:	0001A
Material Name:	#2 Fuel Oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	30
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AT287	**GOWANUS CANAL**	**NPL**	**1010782149**
WSW	**BUTLER ST (BETWEEN BOND ST AND NEVINS ST**	**CERCLIS**	**NYN000206222**
1/2-1	**BROOKLYN, NY 11231**	**ROD**	
0.528 mi.		**ICIS**	
2790 ft.	**Site 1 of 2 in cluster AT**	**FINDS**	
		PRP	

Relative:
Lower

Actual:
9 ft.

NPL:

EPA ID:	NYN000206222
EPA Region:	02
Federal:	N
Final Date:	2010-03-04 00:00:00

CERCLIS:

Site ID:	0206222
EPA ID:	NYN000206222
Facility County:	KINGS
Short Name:	GOWANUS CANAL
Congressional District:	07
IFMS ID:	02ZP
SMSA Number:	5600
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	02
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Currently on the Final NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	/ /
Site Fips Code:	36047
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	13004971.00000
Contact Name:	CHRISTOS TSIAMIS
Contact Tel:	(212) 637-4257
Contact Title:	Remedial Project Manager (RPM)
Contact Email:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	GOWANUS CANAL
Alias Address:	BUTLER ST(BETWEEN BOND ST AND NEVINS ST)

GOWANUS CANAL (Continued) **1010782149**

BROOKLYN, NY 11231
Alias Comments: Not reported
Site Description: The Gowanus Canal runs through a highly developed area in Brooklyn, New York, and is impacted by contaminated sediments, principally due to activities of former Manufactured Gas Plants (MGPs). Surface sediments contain PCBs at levels up to 350 ppm, and coal tar residue up to 23% by weight of sample.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 01/10/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: / /
Date Completed: 04/09/09
Priority Level: Being considered for proposal to the NPL
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 04/09/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 07/10/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

GOWANUS CANAL (Continued) **1010782149**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 07/10/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: Notice Letters Issued
Date Started: / /
Date Completed: 11/05/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: ISSUE REQUEST LETTERS (104E)
Date Started: / /
Date Completed: 12/17/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 12/17/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

GOWANUS CANAL (Continued) **1010782149**

Action Code:	001
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	/ /
Date Completed:	03/04/10
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started:	07/10/09
Date Completed:	04/29/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started:	11/05/09
Date Completed:	04/29/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	04/29/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /

GOWANUS CANAL (Continued) **1010782149**

Date Completed:	04/29/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	UNILATERAL ADMIN ORDER
Date Started:	/ /
Date Completed:	05/28/10
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	003
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started:	04/29/10
Date Completed:	08/06/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Responsible Party
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Phased Start & Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started:	04/29/10
Date Completed:	08/06/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Responsible Party
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Phased Start & Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started:	04/29/10
Date Completed:	08/06/10
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS

GOWANUS CANAL (Continued) **1010782149**

Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Phased Start & Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/21/10
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started: 04/29/10
Date Completed: 11/23/10
Priority Level: Not reported
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Phased Start & Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NEGOTIATION (GENERIC)
Date Started: 06/06/13
Date Completed: 08/16/13
Priority Level: Not reported
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 08/16/13
Priority Level: Not reported
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

GOWANUS CANAL (Continued) **1010782149**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 07/21/09
Date Completed: 09/27/13
Priority Level: Not reported
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/27/13
Priority Level: Final Remedy Selected at Site
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: Notice Letters Issued
Date Started: / /
Date Completed: 09/30/13
Priority Level: Not reported
Operable Unit: CANAL SEDIMENTS
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 09/14/12
Date Completed: / /
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

GOWANUS CANAL (Continued) **1010782149**

Action:	POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started:	08/16/13
Date Completed:	/ /
Priority Level:	Not reported
Operable Unit:	CANAL SEDIMENTS
Primary Responsibility:	Responsible Party
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Fed Register Date:	03/04/10
Fed Register Volume:	75
Page Number:	9782
Fed Register Date:	04/09/09
Fed Register Volume:	74
Page Number:	16162

Click this hyperlink while viewing on your computer to access
459 additional US CERCLIS Financial: record(s) in the EDR Site Report.

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

ICIS:

Enforcement Action ID:	02-2014-2019
FRS ID:	110033604197
Program ID:	FRS 110033604197
Action Name:	CITY OF NEW YORK
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	KINGS
EPA Region #:	2
Enforcement Action ID:	02-2014-2019
FRS ID:	110033604197
Program ID:	CERCLIS NYN000206222
Action Name:	CITY OF NEW YORK
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	KINGS
EPA Region #:	2
Enforcement Action ID:	02-2014-2008

GOWANUS CANAL (Continued) **1010782149**

FRS ID:	110033604197
Program ID:	CERCLIS NYN000206222
Action Name:	LSG 365 BOND STREET, LLC
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Prospective Purchaser Agreement
Facility County:	KINGS
EPA Region #:	2

Enforcement Action ID:	02-2014-2008
FRS ID:	110033604197
Program ID:	FRS 110033604197
Action Name:	LSG 365 BOND STREET, LLC
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Prospective Purchaser Agreement
Facility County:	KINGS
EPA Region #:	2

Enforcement Action ID:	02-2014-2004
FRS ID:	110033604197
Program ID:	FRS 110033604197
Action Name:	LSG 363 BOND STREET, LLC
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Prospective Purchaser Agreement
Facility County:	KINGS
EPA Region #:	2

Enforcement Action ID:	02-2014-2004
FRS ID:	110033604197
Program ID:	CERCLIS NYN000206222
Action Name:	LSG 363 BOND STREET, LLC
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Prospective Purchaser Agreement
Facility County:	KINGS
EPA Region #:	2

Enforcement Action ID:	02-2014-2001
FRS ID:	110033604197
Program ID:	FRS 110033604197
Action Name:	BEAM, INC. ET AL.
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York

GOWANUS CANAL (Continued) **1010782149**

Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2014-2001
FRS ID: 110033604197
Program ID: CERCLIS NYN000206222
Action Name: BEAM, INC. ET AL.
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2013-2023
FRS ID: 110033604197
Program ID: CERCLIS NYN000206222
Action Name: BENSON METAL CORP. ET AL.
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2013-2023
FRS ID: 110033604197
Program ID: FRS 110033604197
Action Name: BENSON METAL CORP. ET AL.
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2010-2022
FRS ID: 110033604197
Program ID: CERCLIS NYN000206222
Action Name: JOYCE A. KJELLGREN
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: KINGS

GOWANUS CANAL (Continued) **1010782149**

EPA Region #: 2

Enforcement Action ID: 02-2010-2022
FRS ID: 110033604197
Program ID: FRS 110033604197
Action Name: JOYCE A. KJELLGREN
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2010-2011
FRS ID: 110033604197
Program ID: CERCLIS NYN000206222
Action Name: CITY OF NEW YORK
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2010-2011
FRS ID: 110033604197
Program ID: FRS 110033604197
Action Name: CITY OF NEW YORK
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2010-2009
FRS ID: 110033604197
Program ID: CERCLIS NYN000206222
Action Name: BROOKLYN UNION GAS CO. D/B/A NATIONAL GRID NY
Full Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State: New York
Facility Name: GOWANUS CANAL
Facility Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
BROOKLYN, NY 11231
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: KINGS
EPA Region #: 2

Enforcement Action ID: 02-2010-2009
FRS ID: 110033604197
Program ID: FRS 110033604197

GOWANUS CANAL (Continued) **1010782149**

Action Name:	BROOKLYN UNION GAS CO. D/B/A NATIONAL GRID NY
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	KINGS
EPA Region #:	2
Enforcement Action ID:	02-2009-0017
FRS ID:	110033604197
Program ID:	CERCLIS NYN000206222
Action Name:	CHEMTURA CORPORATION (NC)
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Bankruptcy
Facility County:	KINGS
EPA Region #:	2
Enforcement Action ID:	02-2009-0017
FRS ID:	110033604197
Program ID:	FRS 110033604197
Action Name:	CHEMTURA CORPORATION (NC)
Full Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN NY 11231
State:	New York
Facility Name:	GOWANUS CANAL
Facility Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST BROOKLYN, NY 11231
Enforcement Action Type:	Bankruptcy
Facility County:	KINGS
EPA Region #:	2
Program ID:	CERCLIS NYN000206222
Facility Name:	GOWANUS CANAL
Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	FRS 110033604197
Facility Name:	GOWANUS CANAL
Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	CERCLIS NYN000206222
Facility Name:	GOWANUS CANAL
Address:	BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator:	N

GOWANUS CANAL (Continued) **1010782149**

Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No

GOWANUS CANAL (Continued) **1010782149**

NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS NYN000206222
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported

GOWANUS CANAL (Continued) **1010782149**

SIC Code: Not reported

Program ID: FRS 110033604197
Facility Name: GOWANUS CANAL
Address: BUTLER ST (BETWEEN BOND ST AND NEVINS ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

FINDS:

Registry ID: 110033604197

Environmental Interest/Information System

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

PRP:

PRP name:
539 SMITH STREET REALTY CORP
AMERADA HESS CORP.
BENSON METAL CORP
BRINK'S INC
CHEMTURA CORP
CIBRO PETROLEUM PRODUCTS INC
CONSOLIDATED EDISON COMPANY OF NEW YORK INC
HONEYWELL INTERNATIONAL, INC.
JOYCE A KJELLGREN
KRAFT FOODS GLOBAL, INC.
NATIONAL GRID USA
NEW YORK CITY
RAPID AMERICAN CORP
STAUFFER MANAGEMENT CO
US NAVY

AT288 **GOWANUS CANAL SITE** **NY SHWS** **S110487590**
WSW **GOWANUS CANAL** **N/A**
1/2-1 **BROOKLYN, NY, NY 11217**
0.528 mi.
2790 ft. **Site 2 of 2 in cluster AT**

Relative:
Lower

Actual:
9 ft.

SHWS:

Program:	HW
Site Code:	406956
Classification:	Significant threat to the public health or environment - action required.
Region:	2
Acres:	20.000
HW Code:	224133
Record Add:	11/21/2008
Record Upd:	01/21/2014
Updated By:	GWCROSS

Site Description: Site DescriptionThe Gowanus Canal is a man-made navigational waterway in southeastern Brooklyn, Kings County NY. Nearly the entire canal is bounded by hard urban shorelines in the form of bulkheads, moorings, and retaining walls. The site definition includes only the canal and its attached barge slips, totaling slightly over 1.5 linear miles of waterway. Averaging 100 feet in width, the open water area defined as the site totals approximately 1,000,000 square feet or 29 acres. The canal also serves as a storm water drain for the surrounding area. Currently, approximately six square miles of highly urbanized land drains into the canal. Sanitary sewers no longer discharge directly; however, numerous combined sewer overflows (CSO) continue to discharge to the canal during storm events. Industrial discharges from a wide variety of industrial processes were also historically routed to the canal, via private discharge pipes or the municipal sewers. Stagnant water conditions have plagued the canal since its initial construction. To combat this, a flushing tunnel at the north end of the canal was constructed in 1911 to divert water from the Buttermilk Channel to maintain flow through the canal to Gowanus Bay. Operation of the flushing system has had numerous problems resulting in lengthy periods during which it was inoperable. Significant upgrades to this system are scheduled over the next few years to increase the volume of water flushing the canal. Currently the flushing tunnel has been de-activated to facillitate its upgrade and an qxygenation system has been installed at the upper end of the canal. The first of three new tunnel pumps was brought back on line in Jan 2014, and the remaining two are slated for start up in April. Site History Prior to European settlement, this area formed a large tidal marsh, drained by Gowanus Creek and surrounded by higher ground to the west (present-day Carroll Gardens) and east (present-day Park Slope). In the mid 1800s, the Canal was constructed, more or less along the alignment of Gowanus Creek, by straightening and deepening the stream channel and dumping the excavated materials behind rows of timber piles along the shoreline. Combined with other urban filling activities in the surrounding area, the result was a large area of reclaimed land with a dendritic, dead-end canal providing barge access through the middle. The canal offered barge access far inland into Brooklyn, effectively increasing Brooklyns available tidewater frontage for water-borne commerce. Development of the area was rapid, and by 1869, the layout of the canal and the local street network were essentially complete.Long term decline of the local manufacturing economy has led to a marked decrease in commercial use of the Canal, with only a handful of petroleum distributors and

GOWANUS CANAL SITE (Continued) **S110487590**

concrete batch plants as regular users. Roughly the northern half no longer hosts barge movements as a result of siltation due to the significant CSOs which discharge street waste and sewage solids. The canal has not been dredged in several decades, consequently, substantial amounts of sediment have been deposited in upstream areas, and water depths approach zero at low tide. The sediment consists largely of solids settled from stormwater and CSO discharges. Presumably, industrial discharges to the canal have diminished in line with the de-industrialization of the surrounding neighborhood, although this is difficult to verify directly due to a lack of historical records for comparison.

Env Problem: Water quality issues have plagued the Gowanus Canal almost since its construction. Tidal flushing is largely ineffective due to the length, narrowness, and circuitous layout of the canal channel. Operation of the flushing tunnel has improved the situation during the years when flushing was being conducted; however, the current tunnel requires significant upgrades and is likely to be off-line for a year or more as the upgrades are performed. The canal is currently classified by NYSDEC as Class SD water body, acknowledging that natural or man-made conditions limit attainment of higher standards. Even the SD standards are not currently met. Oily sheens are common on the water surface during low tides, dissolved oxygen levels are low and surface contamination has been identified.Sediment quality is also low. Ongoing CSO discharges have resulted in extensive deposits of settled solids, particularly in the more sheltered areas near the upper end. Some parts of the canal bottom are exposed at low tide. Another particularly important contributor to sediment quality problems is the presence of three former manufactured gas plant (MGP sites) along the length of the canal. Although all three MGPs have been closed for decades, coal tar-impacted sediments have been identified at numerous locations along the length of the canal. The three MGPs are all covered by cleanup agreements with NYSDEC, and are at various stages of investigation,remedy selection and implementation. The Fulton Works, immediately east of the canal at its northern extremity, is in the Remedial Investigation process. The Carroll Gardens site (also widely known as Public Place) is in the Brownfield Cleanup Program, and is slated for remediation and redevelopment as a mixed commercial/residential project. The former Metropolitan works, immediately south of the 9th Street bridge, was partially redeveloped under a Voluntary Cleanup Agreement in 2002-2003. However, more work remains to be donepart of the MGP facility lies beneath an active retail building. A Remedial Investigation began in March 2010. Numerous oil storage and handling facilities, asphalt plants,manufacturing facilities and chemical, paint, fertilizer and plastic manufacturers have, or continue to, operate along the canal.

Health Problem: People using the canal for recreational purposes such as swimming and boating may come into direct contact with chemical contaminants and harmful biological organisms. People should avoid any activity that would result in swallowing or accidentally ingesting Canal water. Additionally, people using the canal for any purposes should wash their hands or shower after contacting the water, especially before eating and at the end of the day. Those people who are considering eating fish and shellfish caught in the Canal should follow the NYSDOH consumption advisory for fish and shellfish taken from the Upper Bay of New York Harbor. This advisory specifically includes:The NYSDOH recommends that women of childbearing age and children under

GOWANUS CANAL SITE (Continued) **S110487590**

the age of 15 not eat any fish from the Canal. Other people should eat no gizzard shad, white perch and crab hepatopancreas and crab cooking liquid. Also, other people should eat no more than one meal per month of American eel, Atlantic needlefish, bluefish, rainbow smelt and striped bass. People should eat no more than one (1/2 pound) meal per week of all other fish species except blue crab meat (six crabs per week).

Dump:	False
Structure:	False
Lagoon:	False
Landfill:	False
Pond:	True
Disp Start:	1880
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	11/25/2008 1:09:00 PM
Record Upd:	3/14/2011 4:16:00 PM
Updated By:	WRBAYER
Own Op:	Owner
Sub Type:	01
Owner Name:	Not reported
Owner Company:	NYC Law Department
Owner Address:	100 Church Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10007
Owner Country:	United States of America
HW Code:	224133
Waste Type:	COPPER
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224133
Waste Type:	PCB-AROCLOR 1242
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224133
Waste Type:	COAL TAR PITCH VOLATILES
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224133
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224133
Waste Type:	DDE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224133
Waste Type:	MERCURY
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
Crossref ID:	NYN000206222
Cross Ref Type Code:	05
Cross Ref Type:	CERCLA EPA ID No.
Record Added Date:	6/13/2013 2:54:00 PM
Record Updated:	6/13/2013 2:54:00 PM
Updated By:	EGHAUSAM

AU289
SW
1/2-1
0.562 mi.
2970 ft.

FULTON WORKS
DEGRAW STREET AND NEVINS STREET
BROOKLYN, NY 11217

Site 1 of 2 in cluster AU

EDR MGP **1008407891**
N/A

Relative:
Lower

Actual:
8 ft.

Manufactured Gas Plants:
No additional information available

290
WSW
1/2-1
0.578 mi.
3054 ft.

FORMER O.Z. ELECTRICAL
198 DOUGLASS STREET
BROOKLYN, NY 11217

NY SHWS **S108057803**
NY Spills **N/A**

Relative:
Lower

Actual:
9 ft.

SHWS:

Program:	HW
Site Code:	450318
Classification:	N
Region:	2
Acres:	.170
HW Code:	224152
Record Add:	06/10/2011
Record Upd:	08/24/2012
Updated By:	DPKAPLAN

Site Description: LOCATION:The Site is located at 198 Douglass Street in Brooklyn, between Bond Street and the Gowanus Canal. SITE FEATURES:The property is 0.18 acres and features a one-story warehouse building which is currently used for the storage of art and antique goods and furniture. CURRENT USE/ZONING:The property is currently used for the storage of antique goods. It is zoned for manufacturing use.HISTORICAL USES:The Site has historically been used for a variety of industrial purposes. Prior to its current use, the Site was owned and operated by Paramount Plumbing (approx. 1995 to 1998) and O.Z. Electrical Manufacturing Company Inc. (approx. 1960 to 1995). O.Z. also formerly owned and operated on the adjacent property (196 Douglass) as well as three buildings to the west, across Bond Street (262 Bond Street). Earlier owners/operators include P.H. Hughes Lime, Brick and Lath Yard (approx. 1887 to 1900); a gravel/crushed stone yard (approx. 1900 to 1930); and the Knickerbockers Ice Company, which included a machine shop (1930?s).SITE GEOLOGY AND HYDROGEOLOGY:Fill material consisting of sand, silt, gravel, and construction/demolition debris has been encountered to approximately 10 feet below ground surface (fbgs). Beneath the fill material (10 to 36 fbgs) is a sequence of inter-bedded silt, clay, sand, and peat layers atop fine to coarse-grained sand to a depth of approximately 48 fbgs. Groundwater has been encountered at depths ranging from 1.5 fbgs to 9 fbgs, during various investigations. USEPA Superfund investigations in the area of the Gowanus Canal have found that shallow groundwater flows toward the canal at both low and high tide. Intermediate groundwater generally flows upward toward the canal. Based on water chemistry measurements in surface water and groundwater (collected during Superfund investigations of the Gowanus Canal), it was concluded that infiltration from the canal controls water quality in shallow wells adjacent to the canal, with decreasing influence with distance from the canal.The site did not qualify for addition to the Registry of Inactive Hazardous Disposal Sites.

Env Problem: NATURE AND EXTENT OF CONTAMINATION:A Site Investigation performed in

FORMER O.Z. ELECTRICAL (Continued) **S108057803**

April/May 2012 confirmed that tetrachloroethene (PCE) previously detected in groundwater was limited and not indicative of a release of hazardous waste. GROUNDWATER:In 2006, PCE was detected in groundwater at a concentration of 1,600 parts per billion (ppb) and benzene at 14 ppb, from one grab groundwater sample collected from one boring. In the 2012 Site Investigation, groundwater was sampled from four groundwater monitoring wells. Groundwater samples were analyzed for volatile organic compounds (VOCs). Several VOCs were detected; however, the only contaminants detected at concentrations that exceed standards were isopropylbenzene (detected at 5.1 ppb compared to the standard of 5.0 ppb) and methyl tertiary butyl ether (MTBE) (detected at 10.7 ppb compared to the standard of 10 ppb). The standards cited for groundwater are the NYS Ambient Water Quality Standards and Guidance Values for Water Class GA from NYSDEC Technical & Operational Guidance Series (TOGS) 1.1.1.SOIL:The 2012 Site Investigation included soil sampling from 7 soil borings and analysis for VOCs. The only contaminant detected above standards was isopropylbenzene, detected at 3.91 parts per million (ppm) compared to the CP-51 Supplemental Soil Cleanup Objective for protection of groundwater of 2.3 ppm. A few VOCs were detected on site in the 2006 soil boring, but at very low concentrations.SOIL VAPOR:In soil vapor, trichloroethene (TCE) was detected in two samples at a maximum concentration of 200 micrograms per cubic meter (ug/m3); however TCE was not detected above reporting limits in concurrent indoor air samples.The site did not qualify for addition to the Registry of Inactive Hazardous Disposal Sites.

Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	On-Site Operator
Sub Type:	03
Owner Name:	Jean Lignel
Owner Company:	Not reported
Owner Address:	332 Bleecker St., Apt. 10
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10014-2980
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	05
Owner Name:	Stephen D. Kramer, Esq. c/o Phillips Nizer, LLP
Owner Company:	Matthews Investments Limited
Owner Address:	666 Fifth Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10103-0084
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported

FORMER O.Z. ELECTRICAL (Continued) **S108057803**

Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

SPILLS:

Facility ID:	0603334
Facility Type:	ER
DER Facility ID:	316117
Site ID:	366030
DEC Region:	2
Spill Date:	6/2/2006
Spill Number/Closed Date:	0603334 / Not Reported
Spill Cause:	Unknown
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	2401
Investigator:	DPKAPLAN
Referred To:	Not reported
Reported to Dept:	6/26/2006
CID:	409
Water Affected:	Not reported
Spill Source:	Unknown
Spill Notifier:	Local Agency
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	1
Date Entered In Computer:	6/26/2006
Spill Record Last Update:	11/14/2011
Spiller Name:	JEFFERY FLANNIGAN
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	NY
Spiller Company:	999
Contact Name:	JEFFERY FLANNIGAN
Contact Phone:	(212) 268-1767
DEC Memo:	DEC Piper contacted Caller Jeff Flannigan. He will copy report and analytical and send to DEC.9/8/06- DEC Piper reviewed subsurface investigation report. AS per report, investigaestigation was due to the presence of petroleum vaprs inside work area. 1 boring was completed. Groundwater was encountrered at 9 feet bgs. A water sample was collected at 34 feet which contained elevated levels of benzene, PCE and a variety of SVOCs were above standards. A soil sample was collected at 36 feet bgs which indicated trace levels of clorinated solvents. Indoor air samples revesaled elevated levels of petroleum and clorinated solvents were detected above standards. Due to the soil and gw samples not being collected at the gw interface, the concentrations observed where collected, and indoor air quality, additional investigation is warranted. Case referred to

FORMER O.Z. ELECTRICAL (Continued) **S108057803**

remediation.9/20/06- DEC Piper . Spill transpferred to remediation as per Austin on 9/8/06.11/13/06 - reviewed site assessment report, found PERC in GW. Need to contact consultant to get more delineation of the GW contamination. - KST4/11/08 - This spill has been transferred to D. Kaplan. Since previous reports were missing the representative of the site was contacted and the subsurface investigation report was obtained from the environmental consultant. 5/7/08 - Met the environmental consultant (Djamel Lekmine, AMEC), architect Jeff Flannigan who was acting as representative of the owner (was in charge of construction at the time the spill was reported), and attorney for the owner at the site. The entire lot is covered with a building with slab on grade finished floor. The building serves as a storage facility for fine art. It was explained that additional investigation was necessary. 5/19/08 - Environmental consultant sent a proposed work plan for additional investigation which was very incomplete (see edocs). 5/27/08 - A letter was sent to the environmental consultant describing additional requirements for a subsurface investigation.8/26/08 - Attorney for the owner has been trying to work out a site access agreement with the owner of the adjacent property (196 Douglass St). Representative for the owner of 196 indicated that they are unwilling to grant site access.9/26/08 - After negotiations with the owner of 196 Douglass for site access proved unsuccessful, DEC attorney (John Urda) sent a letter to the owner siting statutory authority for site access for investigation work. See edocs.5/11/09- The work was performed February 10th and 11th. The report has not yet been received.6/18/10-Vought-Received inquiry from DEC Austin as to whether Site should be transferred to Vought as P-Site . Vought discussed with DEC O'Connell and spill reassigned from Kaplan to Vought and entered into P-Site Tracking Spreadsheet.2/8/11-Vought-Spill transferred from DEC Vought to DEC Kaplan for further action.6/10/11 - Transferred to hazardous waste program as potential hazardous waste site (P site 224152)

Remarks: THERE WAS SOIL SAMPLE TESTING AND GROUND WATER TESTING. THERE WAS DIFFENENT MATERIAL THAT WAS FOUND AT THE SITE. THERE ARE TRACES OF VOLITALE ORGANIC COMPOUND, TETRACHLOROETHENE,ETHYLBENZENE, XYLENE WAS FOUND IN SOIL SAMPLE. THE WATER SAMPLE HAD BENZINE, TETRACHLOROETHENE. THEY WERE DIGGING AT THIS SITE.

Material:

Site ID:	366030
Operable Unit ID:	1123996
Operable Unit:	01
Material ID:	2113473
Material Code:	0854A
Material Name:	BENZENE
Case No.:	00071432
Material FA:	Hazardous Material
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False
Site ID:	366030
Operable Unit ID:	1123996
Operable Unit:	01
Material ID:	2184492
Material Code:	0040B
Material Name:	PCE

FORMER O.Z. ELECTRICAL (Continued) **S108057803**

Case No.:	Not reported
Material FA:	Other
Quantity:	Not reported
Units:	Gallons
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

AU291
SW
1/2-1
0.594 mi.
3138 ft.

FULTON MUNICIPAL WORKS **EDR MGP** **1008407890**
NEVINS, DEGRAW AND SACKETT STS. **N/A**
BROOKLYN, NY 11217

Site 2 of 2 in cluster AU

Relative:
Lower

Actual:
10 ft.

Manufactured Gas Plants:
No additional information available

292
NNE
1/2-1
0.800 mi.
4226 ft.

NAVY BARRACKS BKLYN **FUDS** **1007211607**
N/A
, NY

Relative:
Lower

Actual:
29 ft.

FUDS:

Federal Facility ID:	NY9799F7852
FUDS #:	C02NY0174
INST ID:	56453
Facility Name:	NAVY BARRACKS BKLYN
City:	Not reported
State:	NY
EPA Region:	02
County:	Not reported
Congressional District:	10
US Army District:	New England District (NAE)
Fiscal Year:	2012
Telephone:	978-318-8238
NPL Status:	Not Listed
RAB:	Not reported
CTC:	365.3000
Current Owner:	Local Government; Other Federal Government
Current Prog:	Not reported
Future Prog:	Not reported
Acreage:	Not reported
Description:	The Navy Barracks are located in the County of Kings, Borough of Brooklyn, City of New York, State of New York. The site is bounded on the North by Flushing Avenue, on the South by Park Avenue, on the East by Vanderbilt Avenue and on the West by Clermont Avenue. The site was improved by a six story concrete building utilized as a military prison and three story brick building used as barrack and for administrative purposes. The NYC Department of Corrections is used as the Brooklyn Correctional Facility. The former military prison

NAVY BARRACKS BKLYN (Continued) **1007211607**

building and associated utilities are beneficially used by the present owner the New York City Department of Corrections. The former Navy barrack and administrative building is abandoned and owned by GSA. There are number of underground storage tanks, which were never used by the present owner.

History: As per Declaration of Taking dated 29 January 1941, the Department of the Navy obtained 2.638 acres fee. On 15 April 1975, the Department of the Navy conveyed 2.638 acres fee to GSA. As per quitclaim deed dated 4 June 1979, GSA conveyed 0.294 acre fee to the Department of Health and Hospitals Corporation (HHC) of the City of New York. Said deed did not contain any recapture or restoration clauses but did contain a restrictive clause (to be used public health purposes for a period of thirty years -from the date of conveyance). As per quitclaim deed dated 22 February 1985, GSA conveyed 2.344 acres fee to the City of New York. Said deed did not contain any recapture, restoration or restrictive clauses. On 8 September 1986, the 0.294 acre fee reverted back to GSA because of a breach of contract by HHC. GSA is still the owner of record of the 0.2 94 acre fee.

Latitude: 40.69699899999
Longitude: -73.97110000000

293
North
1/2-1
0.804 mi.
4243 ft.

BROOKLYN NAVY YARD 13 ACRE PARCEL **NY SHWS** **S105586296**
KENT AVENUE **N/A**
BROOKLYN, NY 11205

Relative:
Lower

Actual:
17 ft.

SHWS:
Program: HW
Site Code: 57818
Classification: Significant threat to the public health or environment - action required.
Region: 2
Acres: 9.500
HW Code: 224019A
Record Add: 11/18/1999
Record Upd: 10/22/2014
Updated By: JEBROWN
Site Description: Location:This site is on the north-east portion of the Brooklyn Navy Yard Development Corp. Industrial Park (BNYDC) and is operated by the NYC Department of Sanitation. The site is bordered by the East River on the north and west, by Kent Avenue on the east, and by the rest of BNYDC site on the south. Site Features:The 13-Acre parcel site includes a barge basin, the Building 419 transformer substation, two former drum storage areas, and a railroad siding area. The 224019A site deals with only 9.5 acres of the parcel, and excludes the former coal gasification plant known to have existed at the remaining 3.5 acres of the site. Those 3.5 acres have been designated as a separate site and given the ID number of 224019B.Current Zoning and Land Use:The site is zoned for commercial and industrial uses, and is currently used for vehicle and materials storage.The surrounding area includes industrial, commercial and residential uses.Past Use of the Site:The site was used in support of ship building and repair activities. Support actions included waste storage at the two drum storage areas, and power distribution at the transformer substation. The railroad siding area was used for the loading and unloading of materials and fuels. These uses, as well as historic filling practices throughout the waterfront, have led to demonstrable levels of lead, Polycyclic Aromatic Hydrocarbons (PAHs) and/or

BROOKLYN NAVY YARD 13 ACRE PARCEL (Continued) **S105586296**

polychloriinated biphenyls (PCB) contamination.Site Geology and Hydrogeology:The site is underlain by historic fill to a depth of approximately fifteen feet in many areas. Beyond the fill material is a silt sand, then sand unit down to a depth of approximately 100 feet where the Gardiners Clay is found. Groundwater occurs at depths of approximately five feet, and flow is generally to the north and west towards the East River.

Env Problem: Nature and Extent of Contamination:Soils are contaminated with lead and polycyclic aromatic hydrocarbons (PAHs) throughout the site, though more so at the railroad siding and drum storage areas, where concentrations of lead have been observed to sometimes exceed the Toxicity Characteristic Leaching Procedure (TCLP) limit for characteristically hazardous waste. The lead and PAHs are believed to be due primarily to historic fill having been placed throughout the area in order to render the land usable. Polychlorinated biphenyls (PCBs) have been detected in site soils, primarily near the Building 419 transformer substation, but also at the railroad siding area. The level of PCBs detected outside of the Building 419 area are relatively low, with only a few exceedances of the 1 part per million (PPM) commercial cleanup level. PCBs nearer Building 419 have been found well in excess of the 1 PPM commercial cleanup level in near surface soils, and above the 10 PPM level often used for cleanups in deeper soil. The highest concentration detected in soil within this area was 210 PPM.In general, observed concentrations of contaminants in groundwater at the site do not indicate a significant source of groundwater contamination due to waste management at the site. However, there are minor excesses of groundwater standards found sporadically on the parcel, presumably due to historic operations at the site, as well as the presence of historic fill. No source area of contamination relative to these minor groundwater impacts was found during the investigation. Special Resources Impacted/Threatened:The site is largely paved and is not considered an area of significant habitat. Contaminant concentrations found in barge basin sediments are generally consistent with those found throughout the region, and no clear contribution of sediment contamination from the site was determined.Significant Threat:The site was determined to be a significant threat due to the presence and release of hazardous substances.

Health Problem: Exposure to site-related contaminants in surface soil has been minimized by an interim remedial measure (IRM) to remove hot spot soil contamination. Since some contaminated soils remain at the site below concrete or backfill, people will not come in to contact with contaminated soils unless they dig below the surface materials. Contaminated groundwater at the site is not used for drinking or other purposes and the site is served by a public water supply that obtains water from a different source not affected by this contamination. Volatile organic compounds in the groundwater may move into the soil vapor (air spaces within the soil), which in turn may move into overlying buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Since there are no on-site buildings, inhalation of site contaminants in indoor air due to soil vapor intrusion does not represent a concern for the site in its current condition. However, the potential exists for the inhalation of site contaminants due soil vapor intrusion for any future on-site development. An evaluation of the potential for soil vapor intrusion to occur will be completed

BROOKLYN NAVY YARD 13 ACRE PARCEL (Continued) **S105586296**

	should the current use of the site change.
Dump:	True
Structure:	True
Lagoon:	False
Landfill:	False
Pond:	False
Disp Start:	1925
Disp Term:	1995
Lat/Long:	40:41:51.7 / 73:58:35.5
Dell:	False
Record Add:	11/18/1999 12:00:00 PM
Record Upd:	9/20/2013 2:01:00 PM
Updated By:	ldennist
Own Op:	Disp. Owner
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	THE CITY OF NEW YORK
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	City of New York - Corporate Counsel
Owner Address:	100 Church Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10015
Owner Country:	United States of America
Own Op:	Owner
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	CITY OF NEW YORK, CITY CORP. COUNSEL
Owner Address:	100 CHURCH STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10007
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	City of New York
Owner Address:	100 Church Street
Owner Addr2:	Not reported
Owner City,St,Zip:	New York, NY 10015
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Mr. Gerald A. Esposito
Owner Company:	Brooklyn Community Board #1
Owner Address:	435 Graham Avenue
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11211
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	John Dew, Chairperson
Owner Company:	Brooklyn Community Board #2

BROOKLYN NAVY YARD 13 ACRE PARCEL (Continued) **S105586296**

Owner Address:	350 Jay Street, 8th floor
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11201
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	CITY OF NEW YORK,
Owner Address:	100 CHURCH STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	NEW YORK, NY 10007
Owner Country:	United States of America
Own Op:	Document Repository
Sub Type:	NNN
Owner Name:	Central Library
Owner Company:	Brooklyn Public Library
Owner Address:	10 Grand Army Plaza
Owner Addr2:	Not reported
Owner City,St,Zip:	Brooklyn, NY 11238
Owner Country:	United States of America
HW Code:	224019A
Waste Type:	PCB OIL
Waste Quantity:	UNKNOWN
Waste Code:	B007
HW Code:	224019A
Waste Type:	LEAD
Waste Quantity:	UNKNOWN
Waste Code:	D008
HW Code:	224019A
Waste Type:	NAPHTHALENE
Waste Quantity:	UNKNOWN
Waste Code:	Not reported
HW Code:	224019A
Waste Type:	CHLOROBENZENE
Waste Quantity:	UNKNOWN
Waste Code:	D021
HW Code:	224019A
Waste Type:	Benzene (D018 Waste)
Waste Quantity:	unknown
Waste Code:	D018
Crossref ID:	224019B
Cross Ref Type Code:	02
Cross Ref Type:	HW Site ID
Record Added Date:	1/13/2010 1:41:00 PM
Record Updated:	1/13/2010 1:41:00 PM
Updated By:	MOBARRIE

294
North
1/2-1
0.839 mi.
4430 ft.

BROOKLYN NAVAL YARD DEVELOPMENT CORP.
FLUSHING AVENUE & CUMBERLAND STREET
BROOKLYN, NY 11205

NY SHWS **S113916582**
N/A

Relative:
Lower

Actual:
16 ft.

SHWS:

Program:	HW
Site Code:	338760
Classification:	N
Region:	2

BROOKLYN NAVAL YARD DEVELOPMENT CORP. (Continued) **S113916582**

Acres:	Not reported
HW Code:	224019
Record Add:	11/18/1999
Record Upd:	03/27/2007
Updated By:	SRHEIGEL
Site Description:	see projects V00120, 224019A and 224019B
Env Problem:	Not reported
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Not reported
Sub Type:	Not reported
Owner Name:	Not reported
Owner Company:	Not reported
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Country:	Not reported
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

295
SW
1/2-1
0.959 mi.
5061 ft.

PATTERSON CHEMICAL CO INC
102 3RD ST
BROOKLYN, NY 11231

CORRACTS **1000403436**
RCRA NonGen / NLR **NYD980592471**
FINDS
NY MANIFEST

Relative:
Lower

Actual:
19 ft.

CORRACTS:

EPA ID:	NYD980592471
EPA Region:	02
Area Name:	SITEWIDE
Actual Date:	19931119
Action:	CA010 - RFA Initiation
NAICS Code(s):	49311 48411 General Warehousing and Storage General Freight Trucking, Local
Original schedule date:	Not reported
Schedule end date:	Not reported

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

EPA ID: NYD980592471
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 19940920
Action: CA050 - RFA Completed
NAICS Code(s): 49311 48411
General Warehousing and Storage
General Freight Trucking, Local
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: NYD980592471
EPA Region: 02
Area Name: SITEWIDE
Actual Date: 19940527
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 49311 48411
General Warehousing and Storage
General Freight Trucking, Local
Original schedule date: 19940701
Schedule end date: Not reported

RCRA NonGen / NLR:
Date form received by agency: 01/01/2007
Facility name: PATTERSON CHEMICAL CO INC
Facility address: 102 3RD ST
BROOKLYN, NY 11231
EPA ID: NYD980592471
Mailing address: 3RD ST
BROOKLYN, NY 11231
Contact: MOE STONE
Contact address: 3RD ST
BROOKLYN, NY 11231
Contact country: US
Contact telephone: (718) 855-7676
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ACE TERMINALS
Owner/operator address: 102 3RD ST
BROOKLYN, NY 11231
Owner/operator country: US
Owner/operator telephone: (212) 855-7676
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PATTERSON CHEMICAL CO INC
Owner/operator address: 102 THIRD STREET
OPERCITY, NY 99999

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Owner/operator country: US
Owner/operator telephone: (212) 855-7676
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: Yes
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: PATTERSON CHEMICAL CO INC
Classification: Not a generator, verified

Date form received by agency: 11/19/1980
Site name: PATTERSON CHEMICAL CO INC
Classification: Not a generator, verified

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

Date form received by agency: 07/25/1980
Site name: PATTERSON CHEMICAL CO INC
Classification: Not a generator, verified

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE(BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F007
. Waste name: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F009
. Waste name: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

. Waste code: F010
. Waste name: QUENCHING BATH RESIDUES FROM OIL BATHS FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F012
. Waste name: QUENCHING WASTEWATER TREATMENT SLUDGES FROM METAL HEAT TREATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

. Waste code: F017
. Waste name: Not Defined

. Waste code: F018
. Waste name: Not Defined

. Waste code: K086
. Waste name: SOLVENT WASHES AND SLUDGES, CAUSTIC WASHES AND SLUDGES, OR WATER WASHES AND SLUDGES FROM CLEANING TUBS AND EQUIPMENT USED IN THE FORMULATION OF INK FROM PIGMENTS, DRIERS, SOAPS, AND STABILIZERS CONTAINING CHROMIUM AND LEAD.

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: U101
. Waste name: 2,4-DIMETHYLPHENOL (OR) PHENOL, 2,4-DIMETHYL-

Date form received by agency: 12/31/1979
Site name: PATTERSON CHEMICAL CO INC
Classification: Not a generator, verified

Corrective Action Summary:
Event date: 11/19/1993
Event: RFA Initiation

Event date: 05/27/1994
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 09/20/1994
Event: RFA Completed

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 07/22/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/10/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Evaluation date: 03/26/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/13/1985
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/22/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/26/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004387814

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYT370010035
Country: USA
Location Address 1: 102 THIRD ST
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11231
Location Zip Code 4: 4808

Mailing Info:
Name: PATTERSON CHEMICAL CO INC NYD980592471
Contact: STONE MOE PRES
Address: 102 THIRD ST
City/State/Zip: BROOKLYN, NY 11231 4808
Country: USA
Phone: 212-855-5044

Manifest:

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Document ID:	NYO1654263
Manifest Status:	TSDF copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	04/16/1981
Trans1 Recv Date:	/ /
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/09/1981
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	Not reported
Waste Code:	Not reported
Quantity:	Not reported
Units:	Not reported
Number of Containers:	Not reported
Container Type:	Not reported
Handling Method:	Not reported
Specific Gravity:	Not reported
Year:	1980-1981

Document ID:	NYO1537119
Manifest Status:	Completed copy
Trans1 State ID:	2A-044
Trans2 State ID:	Not reported
Generator Ship Date:	06/15/1982
Trans1 Recv Date:	06/15/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	06/16/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00990
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00220
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1982

Document ID:	NYO1537155
Manifest Status:	Completed copy

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Trans1 State ID:	S1092AN
Trans2 State ID:	Not reported
Generator Ship Date:	07/02/1982
Trans1 Recv Date:	07/02/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/07/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	1982

Document ID:	NYO1537452
Manifest Status:	Completed copy
Trans1 State ID:	NY2A-04
Trans2 State ID:	Not reported
Generator Ship Date:	08/31/1982
Trans1 Recv Date:	08/31/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/31/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F005 - UNKNOWN
Quantity:	00990
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	018
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	1982

Document ID:	NYO1537218
Manifest Status:	Completed copy
Trans1 State ID:	2A-044
Trans2 State ID:	Not reported
Generator Ship Date:	07/07/1982
Trans1 Recv Date:	07/07/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	07/08/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1982

Document ID:	NYO1537407
Manifest Status:	Completed copy
Trans1 State ID:	NY2A044
Trans2 State ID:	Not reported
Generator Ship Date:	08/17/1982
Trans1 Recv Date:	08/17/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	08/17/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F001 - UNKNOWN
Quantity:	01210
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	1982

Document ID:	NYO1537434
Manifest Status:	Completed copy
Trans1 State ID:	NY2A044
Trans2 State ID:	Not reported
Generator Ship Date:	10/04/1982
Trans1 Recv Date:	10/04/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	10/05/1982
Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYT370010035
Trans1 EPA ID:	NYT370010035
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	F003 - UNKNOWN
Quantity:	00935
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Specific Gravity: 100
Year: 1982

Document ID: NYO1537209
Manifest Status: Completed copy
Trans1 State ID: NY2A-04
Trans2 State ID: Not reported
Generator Ship Date: 07/07/1982
Trans1 Recv Date: 07/07/1982
Trans2 Recv Date: / /
TSD Site Recv Date: 07/07/1982
Part A Recv Date: / /
Part B Recv Date: / /
Generator EPA ID: NYT370010035
Trans1 EPA ID: NYT370010035
Trans2 EPA ID: Not reported
TSDF ID: NJD002182897
Waste Code: F017 - UNKNOWN
Quantity: 00440
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: Not reported
Specific Gravity: 100
Year: 1982

EPA ID: NYD980592471
Country: USA
Location Address 1: 102 THIRD ST
Location Address 2: Not reported
Location City: BROOKLYN
Location State: NY
Location Zip Code: 11231
Location Zip Code 4: 4808

Mailing Info:
Name: PATTERSON CHEMICAL CO
Contact: UNKNOWN
Address: 102 THIRD ST
City/State/Zip: BROOKLYN, NY 11231 4808
Country: USA
Phone: 212-855-7676

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD097644801
Trans2 State ID: Not reported
Generator Ship Date: 10/09/2013
Trans1 Recv Date: 10/09/2013
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/10/2013
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD980592471

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX640000000
Waste Code:	Not reported
Quantity:	16583
Units:	L
Number of Containers:	1
Container Type:	TT - Cargo tank, tank trucks
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	1
Year:	2013
Manifest Tracking Num:	011357823JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H061

Document ID:	NYO2444652
Manifest Status:	Completed copy
Trans1 State ID:	NY2A-04
Trans2 State ID:	Not reported
Generator Ship Date:	04/11/1983
Trans1 Recv Date:	04/11/1983
Trans2 Recv Date:	/ /
TSD Site Recv Date:	04/12/1983
Part A Recv Date:	04/15/2003
Part B Recv Date:	04/15/2003
Generator EPA ID:	NYD980592471
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	F006 - WW TREAT SL FM ELECTROPLATING OPER
Quantity:	00215
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	005
Container Type:	DM - Metal drums, barrels
Handling Method:	Not reported
Specific Gravity:	100
Year:	1983

Document ID:	NYO2444805
Manifest Status:	Completed copy
Trans1 State ID:	NY2A-04
Trans2 State ID:	Not reported
Generator Ship Date:	12/21/1982
Trans1 Recv Date:	12/21/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/21/1982

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Part A Recv Date:	/ /
Part B Recv Date:	/ /
Generator EPA ID:	NYD980592471
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	K078 - UNKNOWN
Quantity:	00825
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	015
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1982

Document ID:	NJA0022941
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NY2A-044N
Trans2 State ID:	Not reported
Generator Ship Date:	12/18/1984
Trans1 Recv Date:	12/18/1984
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/18/1984
Part A Recv Date:	12/27/1984
Part B Recv Date:	01/22/1985
Generator EPA ID:	NYD980592471
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	NJD002182897
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00110
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	1984

Document ID:	NYO2444787
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NY2A044
Trans2 State ID:	Not reported
Generator Ship Date:	12/22/1982
Trans1 Recv Date:	12/22/1982
Trans2 Recv Date:	/ /
TSD Site Recv Date:	12/23/1982
Part A Recv Date:	01/17/2003
Part B Recv Date:	01/17/2003
Generator EPA ID:	NYD980592471
Trans1 EPA ID:	NYD980592471
Trans2 EPA ID:	Not reported
TSDF ID:	CTD072138969
Waste Code:	K078 - UNKNOWN
Quantity:	03355
Units:	G - Gallons (liquids only)* (8.3 pounds)

PATTERSON CHEMICAL CO INC (Continued) **1000403436**

Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1982

Count: 9 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BROOKLYN	S113916585	DAVIDSON PIPE SUPPLY COMPANY	3RD AVE & 37TH STREET		NY SHWS
BROOKLYN	S113922111	455 SMITH STREET (VICHAR, INC.)	5TH STREET & SMITH STREET TO G	11231	NY VCP
BROOKLYN	S105841910	J. WISE EXCAVATING	BROOKLYN NAVY YARD; GATE 27	11205	NY SWF/LF
BROOKLYN	1003864070	CARROL GARDEN	CORNER OF 5TH AND SMITH STREET	11231	CERC-NFRAP
BROOKLYN	S113922087	FULTON WORKS	DEGRAW STREET AND NEVINS STREE	11215	NY VCP
BROOKLYN	S113922123	FULTON MUNICIPAL WORKS	NEVINS, DEGRAW & SACKETT STS.	11201	NY VCP
BROOKLYN	S113922165	PLYMOUTH STATION	PLYMOUTH, HUDSON, WATER & GOLD	11201	NY VCP
BROOKLYN	S113922162	DANGMAN PARK	SHEEPSHEAD BAY ROAD & WEST 5TH	11215	NY VCP
BROOKLYN	S113922101	SKILLMAN STATION	SKILLMAN ST. FLUSHING & BEDFOR	11205	NY VCP

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/16/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: EPA
Telephone: N/A
Last EDR Contact: 04/08/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/16/2014	Source: EPA
Date Data Arrived at EDR: 01/08/2015	Telephone: N/A
Date Made Active in Reports: 02/09/2015	Last EDR Contact: 04/08/2015
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/21/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/07/2014	Telephone: 703-603-8704
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 04/08/2015
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/20/2015
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/01/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/08/2015
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/18/2014
Date Data Arrived at EDR: 09/19/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/26/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/03/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 09/30/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 37

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 01/12/2015
Number of Days to Update: 54

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 02/20/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 04/08/2015
Date Data Arrived at EDR: 04/10/2015
Date Made Active in Reports: 04/30/2015
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LTANKS: Spills Information Database

Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 03/19/2015
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/19/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks

A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 32

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/08/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 01/28/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/10/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 31

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/03/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

State and tribal registered storage tank lists

TANKS: Storage Tank Faciliy Listing

This database contains records of facilities that are or have been regulated under Bulk Storage Program. Tank information for these facilities may not be releasable by the state agency.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9543
Last EDR Contact: 04/01/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

UST: Petroleum Bulk Storage (PBS) Database

Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/01/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

AST: Petroleum Bulk Storage

Registered Aboveground Storage Tanks.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/01/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing

These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/01/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing

These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/01/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 04/01/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/29/2015
Date Data Arrived at EDR: 01/30/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 42

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/26/2015
Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/30/2015
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 36

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/13/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Registry of Engineering Controls
Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls
Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

RES DECL: Restrictive Declarations Listing
A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

ENV RES DECL: Environmental Restrictive Declarations
The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/06/2015
Date Data Arrived at EDR: 03/27/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/02/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/08/2015
Number of Days to Update: 13

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Semi-Annually

State and tribal Brownfields sites

ERP: Environmental Restoration Program Listing

In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

BROWNFIELDS: Brownfields Site List

A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Semi-Annually

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 12/22/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 38

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/23/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15
Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 04/08/2015
Date Data Arrived at EDR: 04/10/2015
Date Made Active in Reports: 04/30/2015
Number of Days to Update: 20
Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Quarterly

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 03/25/2015
Date Data Arrived at EDR: 03/26/2015
Date Made Active in Reports: 04/08/2015
Number of Days to Update: 13

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 03/26/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Annually

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/03/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database
These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

LIENS: Spill Liens Information
Lien information from the Oil Spill Fund.

Date of Government Version: 02/09/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 15

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 02/09/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 12/30/2014
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 69

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 03/19/2015
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 7

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 03/19/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2014
Date Data Arrived at EDR: 12/29/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 03/31/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 24

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/10/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/27/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/06/2015
Next Scheduled EDR Contact: 06/15/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/27/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/29/2014
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 02/27/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/09/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 03/09/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/24/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Biennially

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/11/2015
Date Made Active in Reports: 03/20/2015
Number of Days to Update: 9

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 03/11/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2015
Date Data Arrived at EDR: 02/04/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

DRYCLEANERS: Registered Drycleaners

A listing of all registered drycleaning facilities.

Date of Government Version: 01/12/2015
Date Data Arrived at EDR: 01/13/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 16

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 03/30/2015
Data Release Frequency: Varies

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 11/06/2014
Date Data Arrived at EDR: 11/07/2014
Date Made Active in Reports: 11/25/2014
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

AIRS: Air Emissions Data

Point source emissions inventory data.

Date of Government Version: 02/24/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 04/15/2015
Number of Days to Update: 26

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Annually

E DESIGNATION: E DESIGNATION SITE LISTING

The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 03/27/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 03/24/2015
Next Scheduled EDR Contact: 07/06/2015
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/18/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/07/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/06/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/10/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/13/2015
Next Scheduled EDR Contact: 05/25/2015
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: N/A

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/30/2015
Next Scheduled EDR Contact: 07/13/2015
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/01/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 02/16/2015
Next Scheduled EDR Contact: 06/01/2015
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/09/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 20

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 02/18/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 10

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 02/18/2015
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 10

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/22/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 81

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 04/06/2015
Next Scheduled EDR Contact: 07/20/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/18/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 26

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 12/15/2014
Date Data Arrived at EDR: 12/18/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 26

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 03/23/2015
Next Scheduled EDR Contact: 06/22/2015
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 12/11/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 32

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 12/11/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 32

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/17/2014
Next Scheduled EDR Contact: 03/02/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/23/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 12/22/2014
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 02/27/2015
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/13/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

130 ST. FELIX STREET
130 ST. FELIX STREET
BROOKLYN, NY 11217

TARGET PROPERTY COORDINATES

Latitude (North):	40.6858 - 40˚ 41' 8.88''
Longitude (West):	73.9775 - 73˚ 58' 39.00''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	586403.9
UTM Y (Meters):	4504170.0
Elevation:	45 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40073-F8 BROOKLYN, NY
Most Recent Revision:	1995

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

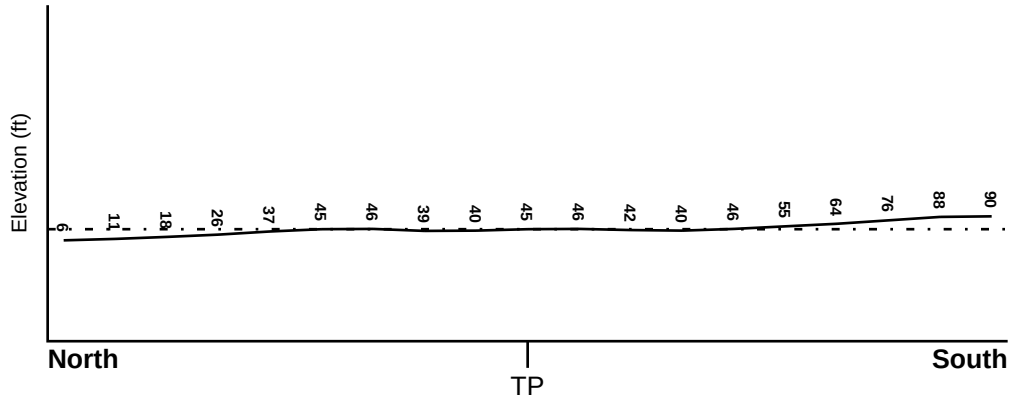
TOPOGRAPHIC INFORMATION

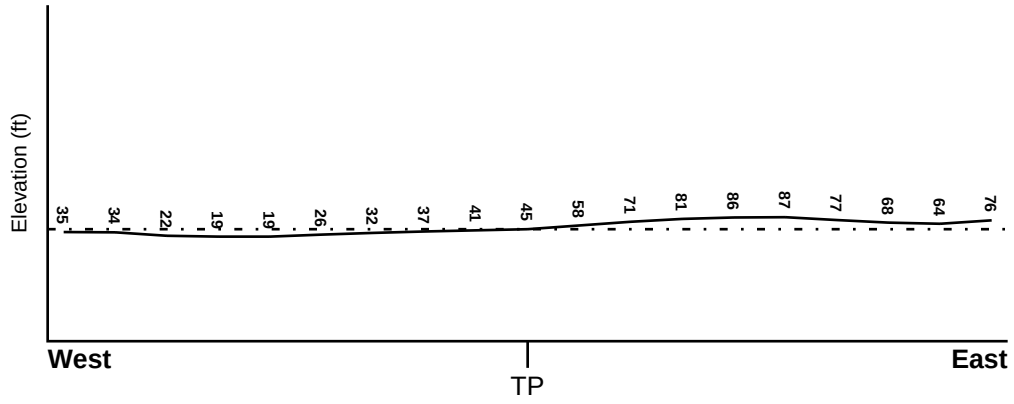
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

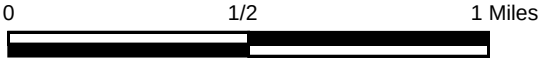
General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 45 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
KINGS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	360497 - FEMA DFIRM Flood data
Additional Panels in search area:	3604970055B - FEMA Q3 Flood data 3604970063B - FEMA Q3 Flood data 3604970073B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
BROOKLYN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1/2 - 1 Mile SW
Site Name:	Vidan Auto Salvage
Site EPA ID Number:	NYD986961167
Groundwater Flow Direction:	SW TOWARD THE NARROWS.
Inferred Depth to Water:	approximately 38 feet.
Hydraulic Connection:	The surficial aquifer and underlying aquifer are hydraulically connected.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Mesozoic
System:	Cretaceous
Series:	Upper Cretaceous
Code:	uK *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	URBAN LAND
Soil Surface Texture:	variable
Hydrologic Group:	Not reported
Soil Drainage Class:	Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 10 inches
Depth to Bedrock Max:	> 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
loamy sand
sandy loam
fine sandy loam

Surficial Soil Types: silt loam
loamy sand
sandy loam
fine sandy loam

Shallow Soil Types: sandy loam

Deeper Soil Types: unweathered bedrock
very gravelly - loamy sand
stratified
sandy loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000828523	0 - 1/8 Mile South
2	USGS40000828558	0 - 1/8 Mile WNW
3	USGS40000828601	1/8 - 1/4 Mile NW
A4	USGS40000828468	1/8 - 1/4 Mile South
B5	USGS40000828587	1/4 - 1/2 Mile WNW
A6	USGS40000828451	1/4 - 1/2 Mile South
B7	USGS40000828606	1/4 - 1/2 Mile NW
8	USGS40000828549	1/4 - 1/2 Mile West
C9	USGS40000828619	1/4 - 1/2 Mile NW
C10	USGS40000828620	1/4 - 1/2 Mile NW
B11	USGS40000828602	1/4 - 1/2 Mile WNW
12	USGS40000828627	1/4 - 1/2 Mile NW
13	USGS40000828443	1/4 - 1/2 Mile SE
14	USGS40000828469	1/4 - 1/2 Mile SW
D15	USGS40000828660	1/4 - 1/2 Mile NW
16	USGS40000828703	1/4 - 1/2 Mile North
D17	USGS40000828670	1/4 - 1/2 Mile NW
E18	USGS40000828544	1/4 - 1/2 Mile West
E19	USGS40000828532	1/4 - 1/2 Mile West
F20	USGS40000828733	1/2 - 1 Mile North
21	USGS40000828477	1/2 - 1 Mile ESE
F22	USGS40000828742	1/2 - 1 Mile North
G23	USGS40000828518	1/2 - 1 Mile West
H24	USGS40000828284	1/2 - 1 Mile South
G25	USGS40000828512	1/2 - 1 Mile West
26	USGS40000828743	1/2 - 1 Mile NNW
27	USGS40000828676	1/2 - 1 Mile WNW
H28	USGS40000828293	1/2 - 1 Mile South
29	USGS40000828780	1/2 - 1 Mile NNE
30	USGS40000828450	1/2 - 1 Mile ESE
31	USGS40000828732	1/2 - 1 Mile NE
I32	USGS40000828294	1/2 - 1 Mile SSW
I33	USGS40000828295	1/2 - 1 Mile SSW
I34	USGS40000828296	1/2 - 1 Mile SSW
35	USGS40000828819	1/2 - 1 Mile North
36	USGS40000828734	1/2 - 1 Mile NW
37	USGS40000828824	1/2 - 1 Mile NNW
38	USGS40000828501	1/2 - 1 Mile West
J39	USGS40000828787	1/2 - 1 Mile NE
40	USGS40000828820	1/2 - 1 Mile NNW
41	USGS40000828478	1/2 - 1 Mile WSW
42	USGS40000828170	1/2 - 1 Mile SSW
J43	USGS40000828811	1/2 - 1 Mile NE
J44	USGS40000828812	1/2 - 1 Mile NE
K45	USGS40000828804	1/2 - 1 Mile NE
46	USGS40000828796	1/2 - 1 Mile NW
K47	USGS40000828818	1/2 - 1 Mile NE
49	USGS40000828838	1/2 - 1 Mile NNW
50	USGS40000828857	1/2 - 1 Mile NNE
51	USGS40000828552	1/2 - 1 Mile East
K52	USGS40000828817	1/2 - 1 Mile NE
53	USGS40000828297	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K54	USGS40000828823	1/2 - 1 Mile NE
L55	USGS40000828802	1/2 - 1 Mile NE
L56	USGS40000828803	1/2 - 1 Mile NE
57	USGS40000828837	1/2 - 1 Mile NE
L58	USGS40000828810	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

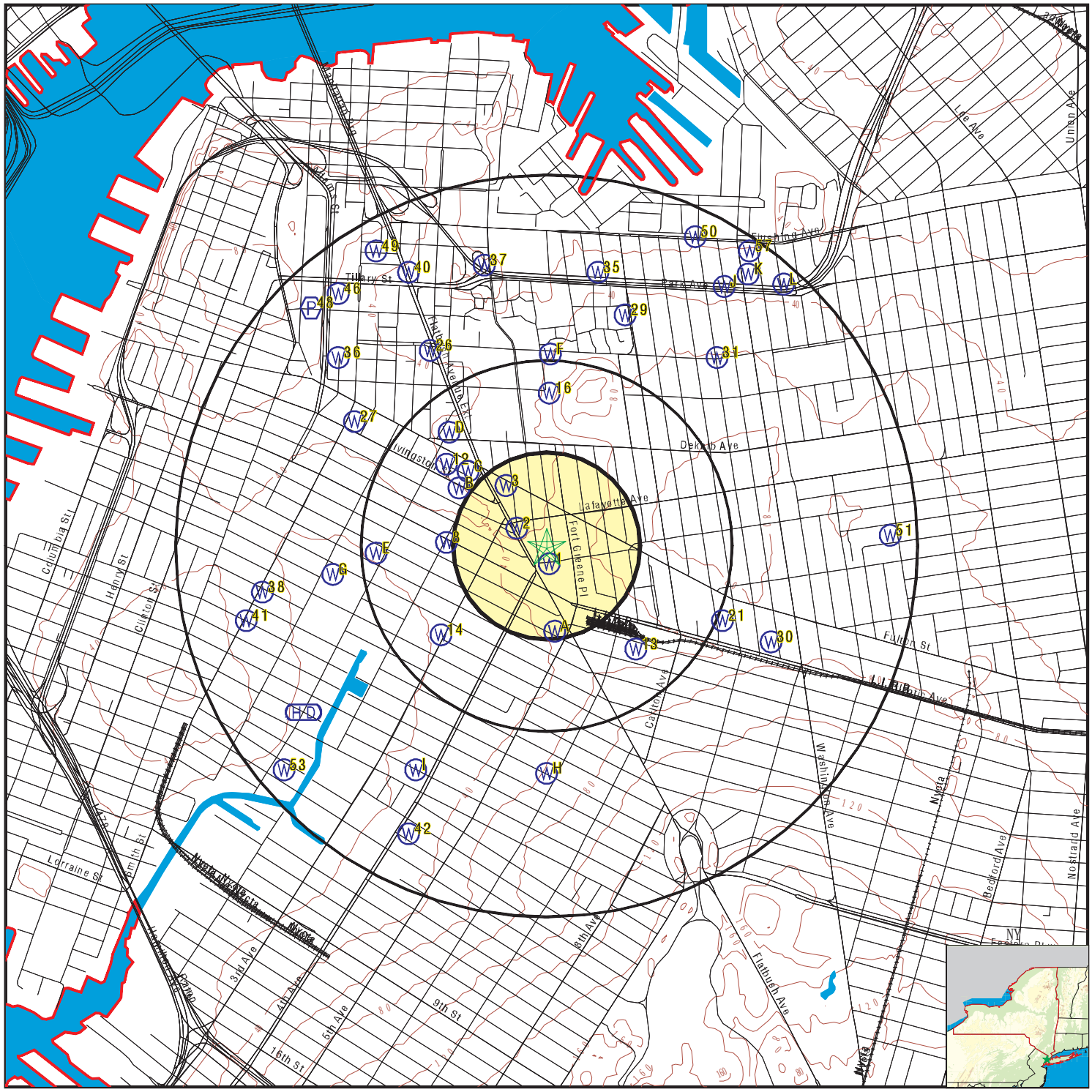
MAP ID	WELL ID	LOCATION FROM TP
48	NY0003335	1/2 - 1 Mile NW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4289483.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: 130 St. Felix Street	CLIENT: Langan Engineering, Inc.
ADDRESS: 130 St. Felix Street Brooklyn NY 11217	CONTACT: Michele Rogers
LAT/LONG: 40.6858 / 73.9775	INQUIRY #: 4289483.2s
	DATE: May 08, 2015 4:17 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **South** **0 - 1/8 Mile** **Higher**	**FED USGS**	**USGS40000828523**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404106073584001		
Monloc name:	K 18. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6851031
Longitude:	-73.9773609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	48.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

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2 **WNW** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS40000828558**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404111073584601		
Monloc name:	K 659. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6864919
Longitude:	-73.9790277	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	170
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

3
NW **FED USGS** **USGS40000828601**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404117073584801		
Monloc name:	K 1073. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6881585
Longitude:	-73.9795832	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	32.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
South **FED USGS** **USGS40000828468**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404057073583701		
Monloc name:	K 19. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6828809
Longitude:	-73.9773609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	46.9
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Jameco Aquifer		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	186
Welldepth units:	ft	Wellholedepth:	186
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 276

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-03-17		8.15	2002-03-21		7.73
2001-03-21		8.15	2000-03-22		8.01
1999-03-23		8.43	1998-05-28		8.88
1998-04-29		8.67	1998-03-25		8.49
1998-02-26		8.49	1998-01-26		8.27
1997-12-29		8.33	1997-11-26		8.48
1997-10-29		8.39	1997-09-29		8.56
1997-03-18		8.57	1996-07-12		8.31
1995-09-29		7.73	1995-06-22		7.87
1995-03-15		8.28	1995-01-03		8.59
1994-06-28		8.97	1993-11-22		8.35
1993-08-25		8.38	1993-07-22		8.51
1993-06-22		8.66	1993-05-24		8.82
1993-04-28		8.91	1993-03-23		8.44
1993-01-19		8.41	1992-12-28		8.39
1992-11-19		8.25	1992-10-27		8.29
1992-09-18		8.37	1992-08-24		8.34
1992-07-14		8.31	1989-03-08		8.14
1988-06-01		8.17	1987-09-10		7.97
1987-03-10		7.79	1986-09-10		7.46
1986-06-13		7.59	1985-12-03		7.64
1985-10-01		7.57	1985-05-21		8.48
1984-12-18		10.17	1984-10-05		9.78
1984-06-28		10.27	1984-03-16		9.83
1984-01-05		9.80	1983-09-28		8.34
1983-03-25		8.83	1982-12-21		8.27
1982-10-06		8.56	1982-06-30		8.87
1982-04-02		9.08	1981-12-29		8.77
1981-09-23		8.47	1981-06-25		8.96
1981-03-27		9.41	1980-12-30		9.60
1980-09-23		9.87	1980-06-19		10.29
1980-03-13		9.46	1979-12-18		10.02
1979-09-17		10.47	1979-06-28		10.58
1978-06-14		10.18	1977-03-29		7.77
1976-12-21		8.00	1976-09-22		7.99
1976-07-09		7.97	1975-12-16		8.03
1975-10-07		8.41	1975-06-30		7.50
1975-03-26		7.85	1974-12-20		7.83
1974-09-25		7.62	1974-09-05		7.95
1974-06-28		7.98	1974-03-19		8.20
1974-01-09		8.24	1973-09-25		7.29
1973-07-09		7.77	1973-04-03		7.58
1972-12-27		7.37	1972-09-29		7.04
1972-07-10		7.67	1972-03-28		6.77
1972-01-13		6.94	1971-09-23		7.01
1971-07-28		8.33	1971-05-05		7.33
1971-03-08		5.38	1971-02-09		6.59
1970-10-30		6.38	1970-05-08		6.67
1970-03-13		6.38	1970-02-06		5.97
1969-11-10		5.90	1969-09-02		5.69

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1969-08-04		5.48
1969-05-28		5.00
1969-04-01		4.79
1969-01-30		4.57
1968-12-03		4.07
1968-09-30		3.94
1968-07-29		4.13
1968-05-28		4.12
1968-03-27		4.29
1968-02-05		4.29
1967-11-29		3.93
1967-09-26		3.82
1967-07-28		3.56
1967-05-31		3.67
1967-03-29		3.48
1967-01-31		1.93
1966-12-01		2.96
1966-09-30		2.66
1966-07-29		2.59
1966-05-26		3.17
1966-03-30		3.31
1966-01-28		3.08
1965-12-02		3.12
1965-10-07		3.07
1965-07-23		3.13
1965-05-24		3.28
1965-03-25		3.03
1965-01-29		2.80
1964-11-25		2.69
1964-10-01		2.57
1964-07-27		2.89
1964-05-28		2.74
1964-03-30		2.85
1964-01-28		2.45
1963-12-05		2.14
1963-09-30		2.23
1963-07-30		2.43
1963-06-03		2.92
1963-03-29		3.04
1963-01-31		3.06
1962-12-04		3.07
1962-08-31		3.03
1962-07-02		3.37
1962-04-26		3.75
1962-03-05		3.27
1961-12-28		3.08
1961-10-31		2.42
1961-08-31		2.88
1961-06-29		2.60
1961-04-26		2.61
1961-03-01		2.12
1960-12-06		1.57
1960-09-28		1.23
1960-08-02		1.10
1960-06-02		1.44

Date	Feet below Surface	Feet to Sealevel
1969-07-02		5.14
1969-04-22		4.99
1969-03-01		4.59
1969-01-08		4.39
1968-11-06		3.87
1968-08-28		3.92
1968-06-26		4.15
1968-04-22		4.40
1968-03-06		4.01
1968-01-02		4.63
1967-10-20		3.62
1967-09-07		3.82
1967-07-06		3.57
1967-05-04		3.38
1967-02-24		3.25
1966-12-23		3.09
1966-10-25		2.68
1966-08-29		2.64
1966-06-27		2.94
1966-05-04		3.16
1966-03-02		3.07
1965-12-30		3.41
1965-10-28		3.09
1965-09-09		3.09
1965-06-24		3.15
1965-05-04		3.31
1965-02-24		3.00
1964-12-31		2.49
1964-11-02		2.72
1964-09-02		2.32
1964-07-06		2.79
1964-04-23		2.76
1964-02-28		2.58
1963-12-31		2.20
1963-11-05		2.14
1963-09-03		2.44
1963-07-02		2.61
1963-04-25		3.04
1963-02-28		3.02
1963-01-03		3.17
1962-10-03		2.96
1962-07-30		3.45
1962-05-29		4.36
1962-03-27		3.36
1962-01-31		3.00
1961-11-28		2.89
1961-09-28		2.63
1961-08-01		2.59
1961-05-31		2.91
1961-03-28		2.43
1961-01-30		1.97
1960-11-02		1.46
1960-08-30		1.09
1960-06-30		1.24
1960-05-04		1.32

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-03-29		1.26	1960-03-08		1.16
1960-01-27		0.94	1960-01-05		0.93
1959-12-01		0.60	1959-11-02		0.71
1959-10-06		0.53	1959-09-03		0.73
1959-08-04		0.87	1959-07-02		1.12
1959-06-01		1.41	1959-05-06		1.36
1959-04-03		1.54	1959-03-02		1.59
1959-01-29		1.34	1959-01-07		1.47
1958-10-30		1.16	1958-08-28		0.94
1958-07-29		1.14	1958-06-30		1.14
1958-05-29		1.20	1958-05-01		0.79
1958-04-08		0.59	1958-03-03		0.40
1958-01-28		0.16	1957-12-31		-0.04
1957-11-22		-0.19	1957-10-30		-0.23
1957-09-24		-0.43	1957-09-04		-0.21
1957-07-24		-0.24	1957-06-27		-0.12
1957-05-28		0.09	1957-04-24		0.17
1957-03-27		0.07	1957-02-27		0.21
1957-01-25		-0.03	1956-12-20		-0.16
1956-11-29		-0.18	1956-10-02		-0.31
1956-09-04		-0.41	1956-08-02		-0.35
1956-07-03		-0.33	1956-06-05		-0.17
1956-05-03		-0.28	1956-03-29		-0.56
1956-03-05		-0.69	1956-02-03		-0.96
1955-12-22		-1.11	1955-12-02		-1.43
1955-11-04		-1.66	1955-10-07		-1.88
1955-08-25		-2.01	1955-07-26		-1.97
1955-06-23		-1.71	1955-05-24		-1.47
1955-04-26		-1.34	1955-03-29		-1.54
1955-02-21		-1.71	1955-01-25		-1.77
1954-12-27		-2.03	1954-12-02		-2.29
1954-10-28		-2.61	1954-10-05		-2.79
1954-08-25		-2.62	1954-07-29		-2.74

B5
WNW **FED USGS** **USGS40000828587**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404115073585601		
Monloc name:	K 656. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.687603
Longitude:	-73.9818055	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	43.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	159
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A6
South
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000828451**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055073583801		
Monloc name:	K 657. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820476
Longitude:	-73.9768054	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	44.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	227
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B7
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000828606**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404118073585401		
Monloc name:	K 277. 1		
Monloc type:	Well		
Monloc desc:	5401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6884363
Longitude:	-73.9812499	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	37.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	83
Welldepth units:	ft	Wellholedepth:	146
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

8
West **FED USGS** **USGS40000828549**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404109073585901		
Monloc name:	K 655. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6859364
Longitude:	-73.9826389	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	39.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	214
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C9
NW **FED USGS** **USGS40000828619**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404119073585301		
Monloc name:	K 660. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6887141
Longitude:	-73.9809722	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	125
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C10
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000828620**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404119073585701		
Monloc name:	K 320. 1		
Monloc type:	Well		
Monloc desc:	5701		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6887141
Longitude:	-73.9820833	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	114
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

B11
WNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000828602**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404117073590001		
Monloc name:	K 290. 1		
Monloc type:	Well		
Monloc desc:	0001		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6881585
Longitude:	-73.9829167	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	39.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	104
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

12
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000828627**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404120073585901		
Monloc name:	K 259. 1		
Monloc type:	Well		
Monloc desc:	5901		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6889919
Longitude:	-73.9826389	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	86
Welldepth units:	ft	Wellholedepth:	113
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

13
SE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000828443**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404054073582401		
Monloc name:	K 20. 1		
Monloc type:	Well		
Monloc desc:	2401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6817698
Longitude:	-73.9729164	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	126
Welldepth units:	ft	Wellholedepth:	136
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

14
SW **FED USGS** **USGS40000828469**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404057073585901		
Monloc name:	K 3259. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6823253
Longitude:	-73.9829167	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	30
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 45

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-03-14		13.98	1995-01-03		13.34
1994-06-28		13.99	1994-03-25		14.42
1993-11-22		12.15	1993-08-25		12.04
1993-07-22		12.75	1993-06-22		13.30
1993-06-14		13.47	1993-03-23		13.46
1993-01-19		13.09	1992-12-28		12.92
1992-11-19		12.13	1992-10-27		11.90
1992-09-18		12.32	1992-07-14		12.76
1992-03-18		11.35	1991-03-20		12.45
1990-03-27		12.47	1989-04-11		12.81
1988-06-01		13.38	1985-10-01		12.45
1985-05-21		12.53	1984-12-18		12.91
1984-10-05		13.24	1984-06-28		13.60
1984-03-16		13.38	1984-01-05		5.13
1983-09-28		5.98	1983-06-29		12.13
1983-03-25		12.38	1982-12-21		11.88
1982-10-06		13.28	1982-06-30		13.66
1982-03-24		13.42	1981-12-29		13.90
1981-09-23		14.24	1981-06-25		13.76

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1981-03-20		13.94	1981-02-10		13.43
1980-12-30		13.16	1980-09-23		13.35
1980-06-24		13.06	1980-06-10		14.02
1980-04-11		12.13			

D15
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000828660**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404124073585701		
Monloc name:	K 1302. 1		
Monloc type:	Well		
Monloc desc:	5701		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6901029
Longitude:	-73.9820833	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	79
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

16
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000828703**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404130073584001		
Monloc name:	K 661. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6917696
Longitude:	-73.977361	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	54.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	148
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

D17
NW **FED USGS** **USGS40000828670**
1/4 - 1/2 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404125073590001		
Monloc name:	K 1347. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6903807
Longitude:	-73.9829167	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	40.3
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	71
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 344

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1977-03-28		3.51	1976-10-05		3.32
1976-06-28		3.03	1976-03-23		4.40
1975-12-16		4.05	1975-10-07		3.47
1975-06-30		3.84	1975-03-26		3.54
1974-12-20		3.50	1974-09-05		2.74
1974-06-26		2.38	1974-03-19		4.70
1974-01-09		3.85	1973-09-25		2.08
1973-07-09		2.88	1973-04-03		2.72
1972-12-27		2.51	1972-09-29		2.02
1972-07-10		2.70	1972-03-28		3.30

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1972-01-13		2.98
1971-08-08		2.83
1970-03-13		-2.83
1969-09-03		0.95
1968-04-23		-0.94
1967-03-29		1.05
1966-05-04		0.33
1965-09-14		-1.10
1964-10-30		-0.90
1963-04-26		-0.01
1961-12-28		-0.65
1960-09-15		-3.32
1956-12-20		-2.98
1954-10-27		-4.43
1954-05-27		-4.97
1954-03-30		-4.04
1954-01-28		-4.49
1953-12-02		-4.99
1953-10-02		-7.22
1953-08-03		-5.21
1953-05-25		-6.04
1953-03-25		-5.25
1953-02-11		-6.17
1952-12-05		-7.56
1952-09-22		-10.32
1952-07-23		-10.82
1952-05-27		-10.26
1952-03-24		-11.81
1952-01-29		-12.93
1951-11-28		-13.76
1951-09-27		-16.72
1951-07-26		-16.27
1951-05-29		-15.55
1951-03-27		-15.39
1951-01-30		-16.70
1950-11-28		-16.71
1950-09-27		-18.17
1950-07-27		-18.82
1950-06-05		-16.10
1950-03-29		-16.41
1950-01-26		-17.23
1949-11-28		-17.07
1949-09-28		-18.49
1949-07-28		-19.52
1949-06-01		-17.62
1949-04-04		-17.58
1949-01-26		-18.78
1948-12-14		-19.15
1948-10-04		-20.82
1948-07-26		-20.91
1948-06-02		-20.66
1948-03-26		-21.12
1948-02-03		-21.77
1947-12-16		-21.85
1947-11-19		-21.93

Date	Feet below Surface	Feet to Sealevel
1971-09-27		2.76
1970-10-30		-2.06
1969-11-10		1.19
1969-04-22		1.74
1967-10-20		0.80
1966-10-25		0.11
1965-10-27		-0.48
1965-05-04		0.87
1964-04-23		-0.46
1962-04-26		0.83
1961-01-05		-0.38
1959-03-16		-1.20
1956-02-13		-3.28
1954-06-29		-6.16
1954-04-28		-4.27
1954-02-25		-4.11
1953-12-23		-4.83
1953-10-28		-5.71
1953-08-28		-4.81
1953-06-24		-6.16
1953-04-27		-4.73
1953-02-27		-5.78
1952-12-23		-7.17
1952-11-03		-8.40
1952-08-25		-10.77
1952-06-24		-10.67
1952-04-29		-10.64
1952-02-20		-12.57
1951-12-20		-13.71
1951-11-02		-14.24
1951-08-28		-17.51
1951-06-28		-16.09
1951-05-02		-14.47
1951-02-27		-16.08
1950-12-20		-17.07
1950-10-31		-17.18
1950-08-29		-19.58
1950-06-29		-17.48
1950-04-27		-15.42
1950-03-01		-16.92
1949-12-28		-17.27
1949-10-31		-17.65
1949-08-31		-19.80
1949-07-01		-17.80
1949-04-28		-16.76
1949-02-21		-18.35
1948-12-28		-19.12
1948-11-04		-19.58
1948-08-30		-22.10
1948-06-30		-21.66
1948-04-27		-20.64
1948-03-02		-21.45
1948-01-07		-21.93
1947-11-26		-21.97
1947-10-31		-22.00

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1947-10-14		-22.21
1947-09-30		-23.25
1947-08-27		-23.62
1947-07-30		-23.73
1947-07-16		-23.68
1947-07-02		-22.50
1947-06-30		-21.43
1947-06-20		-21.95
1947-06-06		-21.54
1947-05-23		-21.11
1947-05-10		-21.32
1947-04-26		-21.21
1947-04-12		-21.41
1947-03-29		-21.57
1947-03-15		-21.67
1947-03-01		-21.78
1947-02-15		-21.85
1947-02-01		-21.91
1947-01-18		-21.94
1947-01-04		-22.03
1946-12-21		-21.93
1946-12-07		-21.73
1946-11-23		-21.86
1946-11-09		-21.97
1946-10-26		-22.13
1946-10-12		-22.50
1946-09-30		-23.25
1946-09-16		-23.05
1946-08-19		-21.61
1946-07-08		-23.26
1946-05-27		-21.97
1946-05-13		-20.68
1946-04-29		-20.56
1946-04-15		-20.45
1946-04-01		-20.38
1946-03-18		-19.58
1946-03-04		-20.80
1946-02-18		-20.98
1946-02-04		-21.23
1946-01-21		-21.43
1946-01-07		-21.72
1945-12-24		-21.92
1945-12-10		-22.04
1945-11-26		-22.30
1945-11-12		-22.40
1945-10-29		-22.53
1945-10-15		-22.92
1945-10-01		-23.37
1945-09-17		-23.54
1945-09-04		-23.99
1945-08-20		-23.77
1945-08-06		-23.40
1945-07-23		-23.03
1945-07-07		-22.41
1945-06-23		-21.92

Date	Feet below Surface	Feet to Sealevel
1947-10-07		-22.35
1947-09-15		-23.13
1947-08-13		-23.62
1947-07-23		-23.26
1947-07-07		-22.48
1947-07-01		-23.24
1947-06-24		-22.02
1947-06-13		-22.27
1947-05-29		-22.27
1947-05-17		-21.21
1947-05-03		-21.23
1947-04-19		-21.27
1947-04-05		-21.59
1947-03-22		-21.63
1947-03-08		-21.70
1947-02-22		-21.62
1947-02-08		-21.86
1947-01-25		-21.95
1947-01-11		-21.97
1946-12-28		-21.98
1946-12-14		-21.80
1946-11-30		-21.78
1946-11-16		-21.93
1946-11-02		-22.10
1946-10-19		-22.35
1946-10-05		-22.80
1946-09-23		-23.95
1946-08-30		-23.18
1946-07-30		-21.70
1946-06-10		-21.53
1946-05-20		-20.47
1946-05-06		-20.56
1946-04-22		-20.45
1946-04-08		-20.33
1946-03-25		-20.51
1946-03-11		-20.75
1946-02-25		-20.87
1946-02-11		-21.12
1946-01-28		-21.33
1946-01-14		-21.58
1945-12-31		-21.80
1945-12-17		-22.02
1945-12-03		-22.16
1945-11-19		-22.37
1945-11-05		-22.43
1945-10-22		-22.60
1945-10-08		-23.01
1945-09-24		-23.09
1945-09-10		-24.16
1945-08-27		-23.42
1945-08-13		-23.91
1945-07-30		-22.87
1945-07-16		-23.03
1945-06-30		-22.10
1945-06-16		-21.97

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1945-06-09		-20.67
1945-05-26		-20.31
1945-05-12		-20.47
1945-04-28		-20.29
1945-04-14		-20.27
1945-03-31		-20.28
1945-03-17		-20.41
1945-03-03		-20.53
1945-02-19		-20.65
1945-02-03		-20.83
1945-01-20		-21.05
1945-01-06		-21.31
1944-12-23		-21.53
1944-12-09		-21.72
1944-11-25		-21.85
1944-11-11		-22.00
1944-10-28		-22.20
1944-10-14		-22.19
1944-09-30		-22.43
1944-09-16		-23.51
1944-09-02		-23.55
1944-08-19		-23.36
1944-08-05		-23.07
1944-07-22		-23.10
1944-07-01		-22.18
1944-06-17		-21.84
1944-06-03		-20.83
1944-05-13		-20.08
1944-03-30		-20.46
1944-03-11		-20.55
1944-02-26		-20.63
1944-02-05		-20.90
1944-01-08		-21.19
1943-12-18		-21.51
1943-12-04		-21.53
1943-11-20		-21.73
1943-09-25		-22.41
1943-09-11		-23.37
1943-08-28		-22.93
1943-08-14		-22.93
1943-07-31		-23.43
1943-07-17		-22.90
1943-07-03		-22.61
1943-06-19		-22.44
1943-06-05		-21.50
1943-05-22		-20.69
1943-05-08		-20.09
1943-04-24		-19.92
1943-04-10		-20.02
1943-03-27		-20.18
1943-02-20		-20.64
1942-12-22		-21.21

Date	Feet below Surface	Feet to Sealevel
1945-06-02		-20.49
1945-05-19		-20.31
1945-05-05		-20.40
1945-04-21		-20.19
1945-04-07		-20.37
1945-03-24		-20.37
1945-03-10		-20.46
1945-02-24		-20.60
1945-02-10		-20.73
1945-01-27		-20.87
1945-01-13		-21.20
1944-12-30		-21.41
1944-12-16		-21.59
1944-12-02		-21.80
1944-11-18		-21.96
1944-11-04		-22.02
1944-10-21		-22.14
1944-10-07		-22.24
1944-09-23		-23.36
1944-09-09		-23.72
1944-08-26		-23.63
1944-08-12		-23.18
1944-07-29		-23.13
1944-07-15		-23.04
1944-06-24		-22.26
1944-06-10		-20.44
1944-05-27		-20.07
1944-05-05		-20.33
1944-03-18		-20.54
1944-03-04		-20.67
1944-02-12		-20.79
1944-01-29		-20.92
1944-01-01		-21.33
1943-12-11		-21.65
1943-11-27		-21.67
1943-10-30		-21.96
1943-09-18		-22.81
1943-09-04		-23.29
1943-08-21		-22.92
1943-08-07		-23.09
1943-07-23		-23.23
1943-07-09		-22.37
1943-06-26		-22.09
1943-06-12		-20.81
1943-05-29		-20.42
1943-05-15		-20.30
1943-05-01		-20.16
1943-04-17		-19.98
1943-04-03		-20.07
1943-03-20		-20.38
1943-01-22		-21.02
1942-10-15		-21.92

Map ID Direction Distance Elevation	Database	EDR ID Number
E18 **West** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000828544**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404108073591001		
Monloc name:	K 676. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6856586
Longitude:	-73.9856945	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	28.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	163
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

E19 **West** **1/4 - 1/2 Mile** **Lower**	**FED USGS**	**USGS40000828532**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404107073591401		
Monloc name:	K 731. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6853808
Longitude:	-73.9868057	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	23.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	210
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F20
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000828733**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404135073584001		
Monloc name:	K 3276. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6931584
Longitude:	-73.977361	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	54
Welldepth units:	ft	Wellholedepth:	54
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 176

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-08-26		5.76	2003-06-25		5.83
2003-05-20		5.66	2003-04-28		5.80
2003-03-17		5.85	2003-01-28		5.65
2002-12-27		5.62	2002-11-26		5.35
2002-10-21		5.03	2002-09-25		4.80
2002-08-30		4.68	2002-07-22		4.75
2002-06-19		4.80	2002-05-29		4.93
2002-04-24		4.97	2002-03-21		5.04
2002-02-27		5.01	2002-01-28		5.12
2001-12-28		5.18	2001-11-15		5.34
2001-10-24		5.41	2001-09-26		5.37
2001-08-29		5.36	2001-07-24		5.45
2001-06-28		5.56	2001-05-24		5.70
2001-04-25		5.91	2001-03-20		5.53
2001-02-22		5.47	2001-01-17		5.33
2000-12-19		5.31	2000-11-28		5.22
2000-10-24		5.33	2000-09-27		5.28
2000-08-24		5.35	2000-07-27		5.21
2000-06-28		5.30	2000-05-23		5.26

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2000-04-27		5.35
2000-02-29		5.31
1999-11-23		5.31
1999-09-23		5.18
1999-07-20		4.99
1999-05-18		5.33
1999-03-23		5.48
1999-01-27		5.40
1998-10-29		5.37
1998-09-01		5.63
1998-06-10		6.09
1998-04-29		6.01
1998-01-29		5.84
1997-11-26		5.57
1997-09-29		5.46
1997-06-26		5.58
1997-03-18		5.83
1997-01-24		5.79
1996-09-19		5.54
1996-03-13		5.68
1995-09-26		5.16
1995-03-14		5.72
1994-12-13		5.74
1994-09-21		5.77
1994-07-27		5.83
1994-05-17		6.25
1994-03-25		6.11
1993-11-18		5.50
1993-09-15		5.33
1993-07-15		5.62
1993-05-20		6.08
1993-03-23		5.59
1993-01-26		5.44
1992-11-24		5.25
1992-09-16		5.32
1992-07-15		5.30
1992-06-15		5.37
1992-04-14		5.70
1992-02-19		5.83
1991-12-18		5.81
1991-10-16		5.78
1991-05-15		6.02
1991-03-20		6.01
1991-01-24		5.89
1990-11-13		6.01
1990-09-12		5.91
1990-07-12		5.67
1990-05-25		5.59
1990-04-04		5.67
1990-02-26		6.33
1989-12-28		6.02
1989-10-27		6.00
1989-08-31		5.83
1989-06-22		5.90
1989-04-28		5.23

Date	Feet below Surface	Feet to Sealevel
2000-03-22		5.27
1999-12-13		5.12
1999-10-19		5.27
1999-08-17		4.95
1999-06-24		5.10
1999-04-28		5.52
1999-03-02		5.49
1998-11-24		5.43
1998-09-29		5.48
1998-07-28		5.89
1998-05-20		6.27
1998-03-25		5.93
1997-12-17		5.48
1997-11-05		5.39
1997-07-23		5.47
1997-05-29		5.64
1997-02-28		5.85
1997-01-07		5.95
1996-07-02		5.64
1995-11-28		5.46
1995-05-23		5.53
1995-01-25		5.79
1994-10-18		5.85
1994-08-24		5.78
1994-06-20		5.96
1994-04-26		6.20
1993-12-27		5.46
1993-10-28		5.52
1993-08-18		5.37
1993-06-22		5.78
1993-04-29		6.18
1993-02-24		5.82
1992-12-29		5.38
1992-10-28		5.26
1992-08-25		5.29
1992-06-23		5.37
1992-05-12		5.59
1992-03-18		5.66
1992-01-22		5.72
1991-11-14		5.84
1991-09-24		5.66
1991-04-15		6.13
1991-02-21		5.65
1990-12-10		5.84
1990-10-10		5.96
1990-08-14		5.71
1990-06-20		5.68
1990-04-24		5.87
1990-03-27		5.61
1990-01-24		5.79
1989-11-21		5.89
1989-09-29		5.84
1989-07-25		5.97
1989-05-22		5.48
1989-03-29		5.05

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-02-28		5.50	1989-01-17		5.62
1988-12-09		5.61	1988-11-16		5.01
1988-10-19		5.16	1988-09-14		5.08
1988-08-31		5.08	1988-07-22		5.04
1988-06-17		5.06	1988-06-01		5.73
1985-10-01		4.30	1985-05-21		5.30
1984-12-18		6.03	1984-10-04		6.14
1984-06-28		6.64	1984-03-16		6.33
1984-01-05		6.71	1983-09-28		6.16
1983-06-29		5.63	1983-03-25		5.98
1982-12-21		5.55	1982-10-06		5.78
1982-06-30		5.82	1982-04-01		5.98
1981-12-29		5.80	1981-09-23		5.23
1981-06-29		5.09	1981-04-01		5.98

21
ESE **FED USGS** **USGS40000828477**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404058073580801		
Monloc name:	K 1578. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6828809
Longitude:	-73.9684718	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	74.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	203
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

F22
North **FED USGS** **USGS40000828742**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404136073584001		
Monloc name:	K 3276. 2		
Monloc type:	Well		
Monloc desc:	E/SIDE OF ST. EDWARDS ST, 75 FT S/O MYRTLE AVE		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6934362
Longitude:	-73.9772498	Sourcemap scale:	24000
Horiz Acc measure:	.1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	42
Vert measure units:	feet	Vertacc measure val:	1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Unconfined single aquifer		
Construction date:	20040427	Welldepth:	60
Welldepth units:	ft	Wellholedepth:	60
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

G23
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828518**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404105073591801		
Monloc name:	K 694. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6848253
Longitude:	-73.9879168	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	16.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	117
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
H24 **South** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000828284**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404036073584008		
Monloc name:	K 3261. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770477
Longitude:	-73.9776387	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	64.8
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	45
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 172

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-01-28		23.61	2001-12-28		24.06
2001-11-15		24.59	2001-10-24		25.01
2001-09-26		25.44	2001-08-30		25.37
2001-07-24		25.18	2001-06-28		25.19
2001-05-24		24.70	2001-04-25		23.92
2001-03-20		23.35	2001-02-22		23.31
2001-01-17		23.54	2000-12-19		23.81
2000-11-28		23.96	2000-10-24		24.12
2000-09-27		24.22	2000-08-24		23.99
2000-07-27		23.81	2000-06-28		23.28
2000-05-23		23.03	2000-04-27		22.82
2000-03-23		22.79	2000-02-29		22.83
1999-12-13		23.24	1999-11-23		23.33
1999-10-19		23.59	1999-09-23		23.82
1999-08-17		24.03	1999-07-20		24.13
1999-06-24		24.17	1999-05-18		24.18
1999-04-28		24.22	1999-03-23		24.37
1999-03-02		24.62	1999-01-27		25.10
1998-11-24		26.29	1998-10-29		26.78
1998-09-29		27.33	1998-09-01		27.73
1998-07-28		27.89	1998-06-10		27.28
1998-05-20		26.72	1998-04-29		26.16
1998-03-25		25.51	1998-01-29		25.48
1997-12-17		26.17	1997-11-26		26.39

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1997-11-05		26.71
1997-07-23		27.56
1997-05-29		27.43
1997-02-28		26.82
1997-01-07		26.69
1996-07-02		27.45
1995-11-28		25.39
1995-07-19		26.07
1995-03-14		25.11
1994-12-13		25.36
1994-09-21		26.44
1994-07-27		26.83
1994-05-17		26.23
1994-03-25		25.46
1993-12-27		24.83
1993-10-28		25.49
1993-08-18		26.27
1993-06-22		26.32
1993-04-29		25.45
1993-02-24		24.27
1992-12-29		24.14
1992-10-28		24.44
1992-08-25		24.46
1992-06-23		24.43
1992-04-14		25.66
1992-02-19		25.17
1991-12-18		26.63
1991-10-16		26.05
1991-08-15		26.41
1991-06-12		26.63
1991-04-15		26.33
1991-02-21		26.26
1990-12-10		26.63
1990-10-10		26.67
1990-08-14		26.43
1990-06-20		26.32
1990-04-24		26.18
1990-03-27		26.37
1990-01-24		26.74
1989-11-21		27.15
1989-09-29		26.89
1989-07-25		25.86
1989-05-22		24.29
1989-04-11		24.04
1989-02-28		24.29
1988-12-09		24.65
1988-10-19		25.04
1988-08-31		25.21
1988-06-17		25.13
1985-10-01		25.49
1984-12-18		30.30
1984-06-28		31.01
1984-01-05		28.48
1983-06-29		26.81
1982-12-21		25.81

Date	Feet below Surface	Feet to Sealevel
1997-09-29		27.18
1997-06-26		27.61
1997-03-18		26.89
1997-01-24		26.81
1996-09-19		27.36
1996-03-13		25.62
1995-09-26		25.82
1995-05-23		25.88
1995-01-25		25.01
1994-10-18		26.05
1994-08-24		26.78
1994-06-20		26.70
1994-04-26		25.71
1994-02-22		25.49
1993-11-18		25.21
1993-09-15		25.96
1993-07-15		26.40
1993-05-20		25.95
1993-03-23		24.84
1993-01-26		24.11
1992-11-24		24.04
1992-09-16		24.47
1992-07-15		24.45
1992-05-12		24.56
1992-03-18		25.91
1992-01-22		26.45
1991-11-14		25.85
1991-09-17		26.22
1991-07-16		26.63
1991-05-15		26.51
1991-03-20		26.31
1991-01-24		26.30
1990-11-13		26.66
1990-09-12		26.52
1990-07-12		26.41
1990-05-25		26.20
1990-04-04		26.26
1990-02-26		26.45
1989-12-28		26.91
1989-10-27		26.86
1989-08-31		26.60
1989-06-22		25.06
1989-04-28		24.10
1989-03-29		24.03
1989-01-17		24.42
1988-11-16		24.83
1988-09-14		25.20
1988-07-22		25.33
1988-06-01		25.26
1985-05-21		26.01
1984-10-04		31.41
1984-03-16		31.86
1983-09-28		28.26
1983-03-25		25.81
1982-10-06		25.68

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-06-30		25.11	1982-04-01		25.30
1981-12-29		25.47	1981-09-23		25.76
1981-06-25		26.23	1981-03-20		26.36
1981-02-25		26.37	1980-12-30		28.27
1980-12-30		28.28	1980-09-23		30.01
1980-09-02		29.84	1980-06-24		29.35
1980-06-10		28.81	1980-04-09		24.66

G25
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828512**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404104073592201		
Monloc name:	K 725. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6845475
Longitude:	-73.9890279	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	115
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

26
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828743**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404136073590201		
Monloc name:	K 730. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6934362
Longitude:	-73.9834722	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	36.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	134
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

27
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000828676**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404126073591601		
Monloc name:	K 261. 1		
Monloc type:	Well		
Monloc desc:	1601		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6906585
Longitude:	-73.9873612	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	35.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	95
Welldepth units:	ft	Wellholedepth:	95
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

H28
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000828293**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073584001		
Monloc name:	K 3301. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6767699
Longitude:	-73.9773609	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	60.6
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		
Aquifer type:	Not Reported		
Construction date:	19840301	Welldepth:	70
Welldepth units:	ft	Wellholedepth:	70
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 136

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-02-15		17.93	2005-01-21		18.11
2004-12-15		17.65	2004-11-30		17.90
2004-10-21		18.16	2004-09-21		18.10
2004-08-25		17.98	2004-07-20		18.07
2004-06-16		18.05	2004-05-25		18.32
2004-04-30		17.64	2004-03-21		17.53
2004-02-25		17.74	2003-11-25		17.38
2003-11-19		17.73	2003-10-29		18.06
2003-09-24		17.98	2003-08-26		18.00
2003-07-21		18.00	2003-06-25		17.30
2003-05-20		16.46	2003-04-28		16.50
2003-03-17		15.97	2003-01-28		14.80
2002-12-27		14.27	2002-11-26		13.89
2002-10-21		13.65	2002-09-25		13.35
2002-06-18		12.96	2002-05-29		13.27
2002-04-24		13.18	2002-03-21		13.99
2002-02-27		14.21	2002-01-28		14.15
2001-12-28		14.71	2001-11-15		14.98
2001-10-24		15.45	2001-09-26		15.31
2001-08-30		15.27	2001-07-24		15.40
2001-06-28		15.22	2001-05-24		15.06
2001-04-25		14.40	2001-03-20		13.62
2001-02-22		13.71	2001-01-17		14.04
2000-12-19		14.47	2000-11-28		14.57
2000-10-24		14.50	2000-09-27		14.53
2000-08-24		14.68	2000-07-27		14.32
2000-06-28		14.20	2000-05-23		14.08
2000-04-27		13.67	2000-03-23		13.63
2000-02-29		13.91	1999-12-13		14.14
1999-11-23		14.03	1999-10-19		14.03
1999-09-23		14.55	1999-08-17		14.60
1999-07-20		14.81	1999-06-24		14.97
1999-05-18		14.95	1999-04-28		14.73
1999-03-23		14.93	1999-03-02		15.53
1999-01-27		15.64	1998-11-24		16.67
1998-10-29		17.12	1998-09-29		17.31
1998-09-01		17.65	1998-07-28		17.91
1998-06-10		17.38	1998-05-20		17.34
1998-04-29		16.42	1998-03-25		15.66
1998-01-29		16.33	1997-12-17		16.36
1997-11-26		16.74	1997-11-05		16.21

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1997-09-29		17.75	1997-07-23		17.19
1997-06-26		17.68	1997-05-29		17.13
1997-03-18		17.00	1997-02-28		16.98
1997-01-24		16.45	1997-01-07		16.99
1996-09-19		17.13	1996-07-02		17.51
1996-03-13		16.21	1995-11-28		16.10
1995-09-26		16.28	1995-07-19		16.44
1995-05-23		15.97	1995-03-14		15.95
1995-01-25		15.56	1994-12-13		15.62
1994-10-18		16.51	1994-09-21		16.49
1994-08-24		16.44	1994-07-27		17.01
1994-06-20		16.79	1994-05-17		16.81
1994-04-26		16.30	1994-03-25		15.83
1994-02-22		15.29	1993-12-27		15.00
1993-11-18		15.68	1993-10-28		16.30
1993-09-15		16.23	1993-08-18		16.45
1993-07-15		16.55	1993-06-22		16.77
1993-05-20		16.45	1993-04-29		15.66
1993-03-26		15.16	1993-02-24		14.86
1993-01-26		14.61	1992-12-29		14.67
1992-11-24		14.83	1992-03-18		15.50
1991-03-20		16.73	1990-04-04		17.50
1990-03-27		16.61	1989-04-11		14.51
1988-06-01		15.82	1985-10-01		16.10
1985-05-21		16.78	1984-12-18		18.60
1984-10-04		20.10	1984-06-28		20.16
1984-03-16		18.46	1984-03-02		18.37

29
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000828780**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404141073582601		
Monloc name:	K 729. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6948251
Longitude:	-73.973472	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	45.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	175
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

30
ESE **FED USGS** **USGS40000828450**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404055073575901		
Monloc name:	K 23. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6820476
Longitude:	-73.9659717	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	57.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	243
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

31
NE **FED USGS** **USGS40000828732**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404135073580901		
Monloc name:	K 658. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6931585
Longitude:	-73.9687496	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	61.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	201
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

I32
SSW **FED USGS** **USGS40000828294**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073590401		
Monloc name:	K 930. 1		
Monloc type:	Well		
Monloc desc:	0401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770477
Longitude:	-73.9840278	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	180
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

I33
SSW **FED USGS** **USGS40000828295**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073590501		
Monloc name:	K 956. 1		
Monloc type:	Well		
Monloc desc:	0501		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770477
Longitude:	-73.9843056	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	22.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	182
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

I34
SSW **FED USGS** **USGS40000828296**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073590502		
Monloc name:	K 1030. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770477
Longitude:	-73.9843056	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	182
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

35
North **FED USGS** **USGS40000828819**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073583101		
Monloc name:	K 665. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9748609	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	12.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	169
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

36
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000828734**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404135073591901		
Monloc name:	K 2044. 1		
Monloc type:	Well		
Monloc desc:	1901		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6931584
Longitude:	-73.9881946	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	48.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	140
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

37
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828824**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404148073585201		
Monloc name:	K 15. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6967695
Longitude:	-73.9806944	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	15.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	114
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

38
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000828501**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404102073593301		
Monloc name:	K 654. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6839919
Longitude:	-73.9920836	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	158
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

J39
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828787**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404143073580901		
Monloc name:	K 1288. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6953806
Longitude:	-73.9687496	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	30.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

40
NNW **FED USGS** **USGS40000828820**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073590601		
Monloc name:	K 728. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9845834	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	36.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	132
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

41
WSW **FED USGS** **USGS40000828478**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404058073593601		
Monloc name:	K 702. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6828809
Longitude:	-73.9929169	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	28.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	140
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

42
SSW
1/2 - 1 Mile
Lower

FED USGS **USGS40000828170**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404028073590601		
Monloc name:	K 917. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6745477
Longitude:	-73.9845834	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	10.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	106
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

J43
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828811**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073580701		
Monloc name:	K 1015. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6962139
Longitude:	-73.968194	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	92
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

J44
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828812**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073580702		
Monloc name:	K 1018. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6962139
Longitude:	-73.968194	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	18.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

K45
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828804**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073580401		
Monloc name:	K 1548. 1		
Monloc type:	Well		
Monloc desc:	0401		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9673607	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	38.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

46
NW
1/2 - 1 Mile
Higher

FED USGS **USGS40000828796**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404144073591901		
Monloc name:	K 2172. 1		
Monloc type:	Well		
Monloc desc:	1901		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6956584
Longitude:	-73.9881946	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	50.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	116
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

K47
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828818**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073580501		
Monloc name:	K 1488. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9676385	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

48
NW
1/2 - 1 Mile
Higher

FRDS PWS **NY0003335**

PWS ID:	NY0003335		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	SPRING GLEN LAKE BLOOMINGBURG, NY 12721		
Addressee / Facility:	System Owner/Responsible Party BUDD HERBERT H & H BUDD EARTH MOVING EX CO MOUNTAINDALE RD. SPRING GLEN, NY 12483		
Facility Latitude:	40 41 42	Facility Longitude:	073 59 24
Facility Latitude:	41 39 03	Facility Longitude:	074 26 30
City Served:	MAMAKATING (T)		
Treatment Class	Not Reported	Population:	Not Reported

Violations information not reported.

49
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000828838**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404150073591201		
Monloc name:	K 12. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.697325
Longitude:	-73.9862501	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	49.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	99
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

50
NNE **FED USGS** **USGS40000828857**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404152073581301		
Monloc name:	K 663. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6978806
Longitude:	-73.9698607	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	14.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	195
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

51
East **FED USGS** **USGS40000828552**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404110073573701		
Monloc name:	K 97. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6862142
Longitude:	-73.9598605	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Northern Atlantic Coastal Plain aquifer system		
Formation type:	Glacial Aquifer, Upper		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	120
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 171

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-04-22		4.50	1968-04-22		4.39
1967-10-23		3.58	1967-03-28		3.35
1966-10-25		2.61	1966-05-03		2.93
1965-10-27		2.99	1965-09-15		2.97
1965-05-03		2.49	1964-11-02		2.54
1964-04-23		2.63	1963-10-19		2.09
1963-04-26		2.90	1962-11-09		2.89
1962-04-26		3.20	1961-12-28		3.00
1961-10-02		2.71	1961-03-28		1.96
1960-09-27		1.31	1960-09-15		0.95
1960-03-31		0.88	1960-01-11		0.38
1959-10-07		0.44	1959-07-16		0.74
1959-03-18		1.08	1958-04-16		0.28
1958-01-10		0.00	1957-09-24		-0.39
1956-12-18		-0.71	1956-11-29		-0.62
1956-10-25		-0.85	1956-10-02		-0.59
1956-05-15		-0.77	1956-03-05		-1.30
1955-08-25		-2.46	1955-07-26		2.45
1955-06-23		-2.38	1955-05-24		-2.23
1955-04-28		-2.25	1955-02-25		-2.66
1955-01-25		-2.71	1954-12-27		-2.97
1954-06-29		-3.43	1954-05-27		-3.55
1954-04-28		-3.66	1954-03-30		-3.68
1954-02-25		-3.71	1954-01-28		-3.88
1953-12-23		-4.09	1953-12-02		-4.01
1953-10-28		-4.22	1953-10-02		-4.39
1953-08-28		-4.42	1953-06-24		-4.82
1953-05-25		-5.14	1953-04-27		-5.45
1953-03-25		-6.01	1953-02-27		-6.36
1952-12-23		-7.43	1952-12-05		-7.72
1952-09-22		-8.75	1952-07-23		-9.26
1952-06-24		-9.54	1952-05-27		-9.92
1952-04-29		-10.25	1952-03-24		-10.73
1952-02-20		-11.24	1952-01-29		-11.46
1951-12-20		-12.15	1951-11-28		-12.38
1951-11-02		-12.57	1951-09-26		-12.82
1951-08-28		-12.83	1951-05-02		-13.32
1951-03-27		-13.91	1951-01-30		-14.53
1950-12-20		-14.92	1950-11-28		-15.01
1950-10-31		-15.18	1950-09-27		-15.17
1950-08-29		-14.97	1950-07-27		-14.69
1950-06-29		-14.77	1950-06-05		-14.66
1950-04-27		-14.85	1950-03-29		-14.95
1950-03-01		-15.16	1950-01-26		-15.49
1949-12-28		-15.84	1949-11-28		-16.08
1949-10-31		-16.16	1949-09-28		-16.23
1949-08-31		-16.37	1949-07-28		-16.49
1949-07-01		-16.77	1949-06-01		-17.00
1949-04-28		-17.45	1949-04-04		-17.79
1949-02-21		-18.56	1949-01-26		-18.88

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1948-12-28		-19.29	1948-12-14		-19.46
1948-11-04		-19.96	1948-10-06		-20.26
1948-08-30		-20.51	1948-07-26		-20.96
1948-06-30		-21.32	1948-06-02		-21.56
1948-04-27		-22.10	1948-03-26		-22.56
1948-03-02		-22.98	1948-02-03		-23.50
1948-01-07		-23.95	1947-12-16		-24.55
1947-11-26		-24.67	1947-11-19		-24.77
1947-10-31		-25.02	1947-10-14		-25.14
1947-10-07		-25.22	1947-09-30		-25.24
1947-09-18		-25.33	1947-09-02		-25.38
1947-08-13		-25.47	1947-07-30		-25.52
1947-07-23		-25.57	1947-07-16		-25.62
1947-07-07		-25.77	1947-07-02		-25.91
1947-07-01		-25.93	1947-06-30		-25.42
1947-06-24		-25.93	1947-05-27		-25.92
1947-05-07		-25.96	1947-04-09		-25.90
1947-03-05		-25.87	1947-01-24		-25.91
1946-12-27		-25.92	1946-11-26		-25.96
1946-10-22		-25.92	1946-09-26		-25.89
1946-08-30		-25.82	1946-07-26		-25.60
1946-07-01		-25.40	1946-06-10		-25.34
1946-04-29		-25.25	1946-04-12		-25.25
1946-02-25		-25.44	1946-02-11		-25.52
1946-01-08		-25.77	1945-12-04		-26.09
1945-11-06		-26.27	1945-09-28		-26.26
1945-09-12		-26.30	1945-08-08		-26.00
1945-07-03		-25.96	1945-06-04		-25.75
1945-04-27		-25.78	1945-04-04		-25.80
1945-03-03		-25.85	1945-02-06		-25.95
1945-01-02		-26.18	1944-12-06		-25.56
1944-10-27		-26.58	1944-10-04		-26.51
1944-09-02		-26.33	1944-07-31		-26.13
1944-06-03		-25.86	1944-05-05		-24.84
1944-04-05		-24.77	1943-05-21		-25.85
1943-05-11		-25.83			

K52
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828817**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404147073580201		
Monloc name:	K 82. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6964917
Longitude:	-73.9668051	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	120
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

53
SW **FED USGS** **USGS40000828297**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404037073592901		
Monloc name:	K 10. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6770476
Longitude:	-73.9909724	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	75
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 268

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1943-02-27		-15.45	1943-01-30		-16.47
1943-01-02		-17.14	1942-12-26		-16.81
1942-12-19		-17.58	1942-12-12		-17.11
1942-12-05		-17.86	1942-11-28		-17.51
1942-11-21		-17.69	1942-11-14		-17.74
1942-11-07		-18.28	1942-10-31		-17.56
1942-10-24		-17.95	1942-10-17		-18.01
1942-10-10		-17.84	1942-10-03		-18.25
1942-09-26		-17.93	1942-09-19		-18.53
1942-09-12		-18.21	1942-09-05		-18.13

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1942-08-29		-17.85
1942-08-15		-17.77
1942-08-01		-17.94
1942-07-18		-17.65
1942-07-04		-17.52
1942-06-20		-17.38
1942-06-06		-17.40
1942-05-23		-17.15
1942-05-09		-17.27
1942-04-25		-16.46
1942-04-11		-16.58
1942-03-28		-16.55
1942-03-14		-16.51
1942-02-28		-16.78
1942-02-14		-16.90
1942-01-31		-16.19
1942-01-17		-16.43
1942-01-03		-16.49
1941-12-20		-16.63
1941-12-06		-17.01
1941-11-22		-15.77
1941-11-08		-16.80
1941-10-25		-16.82
1941-10-11		-17.08
1941-09-27		-17.09
1941-09-13		-17.50
1941-08-30		-16.93
1941-08-16		-17.04
1941-08-02		-17.05
1941-07-19		-16.93
1941-07-05		-16.70
1941-06-21		-16.71
1941-06-07		-16.42
1941-05-24		-16.17
1941-05-10		-16.38
1941-04-26		-15.86
1941-04-12		-15.46
1941-03-29		-15.00
1941-03-15		-15.63
1941-03-01		-14.18
1941-02-15		-13.98
1941-02-01		-14.43
1941-01-18		-14.73
1941-01-04		-14.28
1940-12-21		-14.92
1940-12-07		-13.64
1940-11-23		-14.41
1940-11-09		-14.95
1940-10-26		-14.90
1940-10-12		-15.24
1940-09-28		-16.60
1940-09-14		-15.94
1940-08-31		-16.17
1940-08-17		-15.50
1940-08-03		-15.47

Date	Feet below Surface	Feet to Sealevel
1942-08-22		-18.39
1942-08-08		-17.92
1942-07-25		-17.83
1942-07-11		-18.21
1942-06-27		-17.90
1942-06-13		-17.50
1942-05-30		-16.97
1942-05-16		-16.95
1942-05-02		-16.65
1942-04-18		-16.43
1942-04-04		-15.97
1942-03-21		-15.93
1942-03-07		-16.42
1942-02-21		-16.11
1942-02-07		-15.95
1942-01-24		-16.19
1942-01-10		-16.13
1941-12-27		-16.25
1941-12-13		-16.19
1941-11-29		-17.26
1941-11-15		-16.66
1941-11-01		-16.95
1941-10-18		-16.83
1941-10-04		-17.32
1941-09-20		-17.69
1941-09-06		-17.85
1941-08-23		-17.13
1941-08-09		-16.85
1941-07-26		-17.17
1941-07-12		-16.35
1941-06-28		-16.35
1941-06-14		-16.15
1941-05-31		-15.77
1941-05-17		-15.69
1941-05-03		-16.43
1941-04-19		-15.45
1941-04-05		-15.14
1941-03-22		-15.41
1941-03-08		-14.35
1941-02-22		-14.25
1941-02-08		-13.98
1941-01-25		-15.04
1941-01-11		-14.56
1940-12-28		-14.14
1940-12-14		-14.34
1940-11-30		-14.75
1940-11-16		-14.70
1940-11-02		-15.36
1940-10-19		-15.09
1940-10-05		-15.31
1940-09-21		-15.69
1940-09-07		-15.55
1940-08-24		-16.14
1940-08-10		-15.43
1940-07-27		-15.44

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1940-07-20		-14.86
1940-07-06		-14.88
1940-06-22		-14.66
1940-06-08		-14.43
1940-05-25		-14.15
1940-05-11		-13.94
1940-04-27		-13.94
1940-04-13		-13.76
1940-03-30		-12.59
1940-03-16		-13.35
1940-03-02		-13.82
1940-02-17		-13.58
1940-02-03		-13.32
1940-01-20		-13.70
1940-01-06		-14.20
1939-12-23		-13.70
1939-12-09		-13.93
1939-11-25		-13.73
1939-11-11		-14.48
1939-10-28		-15.32
1939-10-14		-15.72
1939-09-30		-16.89
1939-09-16		-15.77
1939-09-01		-16.41
1939-08-18		-16.02
1939-08-04		-15.72
1939-07-21		-16.22
1939-07-07		-15.06
1939-06-23		-15.04
1939-06-09		-14.96
1939-05-26		-14.09
1939-05-12		-14.44
1939-04-28		-13.83
1939-04-15		-13.92
1939-03-31		-14.33
1939-03-10		-14.82
1939-02-24		-14.35
1939-02-10		-14.45
1939-01-27		-15.14
1939-01-13		-15.15
1938-12-30		-14.49
1938-12-16		-14.79
1938-12-02		-14.81
1938-11-18		-15.06
1938-11-04		-14.28
1938-10-21		-13.85
1938-10-07		-13.73
1938-09-23		-13.72
1938-09-09		-13.70
1938-08-26		-13.68
1938-08-12		-13.33
1938-07-29		-13.05
1938-07-08		-12.65
1938-06-25		-12.57
1938-06-04		-12.26

Date	Feet below Surface	Feet to Sealevel
1940-07-13		-15.18
1940-06-29		-14.50
1940-06-15		-15.15
1940-06-01		-14.12
1940-05-18		-14.28
1940-05-04		-13.96
1940-04-20		-13.65
1940-04-06		-13.12
1940-03-23		-13.59
1940-03-09		-14.07
1940-02-24		-14.22
1940-02-10		-13.57
1940-01-27		-13.46
1940-01-13		-14.34
1939-12-30		-13.60
1939-12-16		-13.59
1939-12-02		-13.30
1939-11-18		-13.96
1939-11-04		-14.32
1939-10-21		-15.59
1939-10-07		-15.47
1939-09-23		-16.26
1939-09-08		-16.16
1939-08-25		-16.45
1939-08-11		-15.74
1939-07-28		-16.73
1939-07-14		-16.05
1939-06-30		-15.29
1939-06-16		-15.36
1939-06-02		-15.15
1939-05-19		-14.44
1939-05-05		-14.25
1939-04-21		-14.32
1939-04-08		-13.84
1939-03-17		-15.04
1939-03-03		-14.80
1939-02-17		-14.30
1939-02-03		-14.98
1939-01-20		-14.68
1939-01-06		-14.77
1938-12-23		-14.30
1938-12-09		-13.50
1938-11-25		-14.84
1938-11-11		-14.95
1938-10-28		-14.04
1938-10-14		-13.74
1938-09-30		-13.63
1938-09-16		-13.63
1938-09-02		-13.38
1938-08-19		-13.35
1938-08-05		-13.09
1938-07-15		-12.79
1938-07-01		-12.52
1938-06-11		-12.18
1938-05-28		-12.22

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1938-05-21		-12.05	1938-05-14		-12.20
1938-05-07		-12.24	1938-04-30		-12.29
1938-04-23		-12.15	1938-04-16		-11.98
1938-04-02		-11.64	1938-03-26		-11.52
1938-03-19		-11.54	1938-03-12		-11.69
1938-03-05		-11.52	1938-02-26		-11.72
1938-02-19		-11.63	1938-02-12		-11.74
1938-02-04		-12.43	1938-01-28		-12.66
1938-01-21		-12.31	1938-01-14		-12.22
1938-01-07		-12.00	1937-12-31		-11.96
1937-12-24		-12.09	1937-12-18		-12.12
1937-12-11		-12.11	1937-12-04		-12.05
1937-11-27		-12.45	1937-11-20		-12.09
1937-11-13		-12.02	1937-11-08		-12.50

K54
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828823**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404148073580208		
Monloc name:	K 81. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6967695
Longitude:	-73.9668051	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	96
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 20

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1969-04-22		1.53	1968-11-06		-0.94
1968-04-22		-0.29	1967-10-20		0.28
1967-03-28		0.05	1966-10-25		-0.94
1966-05-03		-0.79	1965-10-27		-1.36
1965-09-14		-1.21	1965-05-24		-0.91
1964-10-30		-1.69	1964-04-23		-1.62
1963-04-26		-2.40	1962-04-26		-2.24

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1961-12-28		-2.83	1961-01-09		-5.61
1960-01-14		-5.75	1959-03-16		-4.51
1954-12-17		-15.64	1953-01-22		-15.11

L55
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828802**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073575701		
Monloc name:	K 1319. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9654162	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	145
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

L56
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828803**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404145073575702		
Monloc name:	K 1340. 1		
Monloc type:	Well		
Monloc desc:	5702		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.6959362
Longitude:	-73.9654162	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	25.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	145
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

57
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828837**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404150073580301		
Monloc name:	K 1051. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.697325
Longitude:	-73.9670829	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	20.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	86
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

L58
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000828810**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-404146073575601		
Monloc name:	K 1313. 1		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02030201	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	40.696214
Longitude:	-73.9651384	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	31.0
Vert measure units:	feet	Vertacc measure val:	0.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	161
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KINGS County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KINGS COUNTY, NY

Number of sites tested: 51

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	0.750 pCi/L	100%	0%	0%
Basement	1.370 pCi/L	88%	10%	2%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Appendix D

Freedom of Information Act Requests

Request Information
Tracking Number : EPA-R2-2015-007108
Requester Name : Natasha Bell
Date Submitted : 05/14/2015
Request Status : Submitted
Description :
Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.
The Subject Property is located at 130 Saint Felix Street in the Fort Greene neighborhood of Brooklyn, New York (Block 2111, Lot 40). The Subject Property is located on an L-shaped city lot bounded by two multi-story Brooklyn Academy of Music buildings to the north at 321 Ashland Place and 126 Felix Street (Block 2111, Lots 11 and 37), Saint Felix Street followed by multi-story residential buildings to the east at 123-131 Saint Felix Street (Block 2112, Lots 9, 10, 11, 12, and 13), a multi-story mixed residential and commercial building at 1 Hanson Place and a multi-story church building at 144 Saint Felix Street (Block 2111, Lots 1 and 45) to the south, and Ashland Place followed by an active construction site at 113 Flatbush Avenue (Block 2110, Lot 3) to the west.
Please contact me at 212-479-5443 with any questions or send your response to my attention at nbell@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.

Natasha Bell
Staff Engineer

Albert Tashji

From: calderon.wanda@epa.gov
Sent: Thursday, May 14, 2015 3:15 PM
To: Natasha Bell
Subject: FOIA Request EPA-R2-2015-007108 Submitted

Follow Up Flag: Follow up
Flag Status: Flagged

This message is to confirm your request submission to the FOIAonline application: View Request. Request information is as follows:

- Tracking Number: EPA-R2-2015-007108
- Requester Name: Natasha Bell
- Date Submitted: 05/14/2015
- Request Status: Submitted
- Description: Re: Freedom of Information Request
  130 Saint Felix Street
  Block 2111, Lot 40
  Brooklyn, New York
  Langan Project No. 170366001

  Dear Sir or Madam:

  Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.
  The Subject Property is located at 130 Saint Felix Street in the Fort Greene neighborhood of Brooklyn, New York (Block 2111, Lot 40). The Subject Property is located on an L-shaped city lot bounded by two multi-story Brooklyn Academy of Music buildings to the north at 321 Ashland Place and 126 Felix Street (Block 2111, Lots 11 and 37), Saint Felix Street followed by multi-story residential buildings to the east at 123-131 Saint Felix Street (Block 2112, Lots 9, 10, 11, 12, and 13), a multi-story mixed residential and commercial building at 1 Hanson Place and a multi-story church building at 144 Saint Felix Street (Block 2111, Lots 1 and 45) to the south, and Ashland Place followed by an active construction site at 113 Flatbush Avenue (Block 2110, Lot 3) to the west.
  Please contact me at 212-479-5443 with any questions or send your response to my attention at nbell@langan.com or at the below address:

  Langan Engineering and Environmental Services, P.C.
  21 Penn Plaza
  360 West 31st Street, 8th floor
  New York, New York 10001-2727

  Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying
and Landscape Architecture, D.P.C.

Natasha Bell
Staff Engineer

May 14, 2015

Fire Department, City of New York
Bureau of Revenue Management
9 MetroTech East
Brooklyn, New York 11201-3857

Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

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New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Natasha Bell

Natasha Bell
Staff Engineer

FIRE DEPARTMENT – CITY OF NEW YORK

Public Records Unit / Tanks Section

9 MetroTech Center
Brooklyn, New York 11201-3857
(718) 999-2441 or 2442

Fuel Tank Special Report Request Form

SECTION A **CUSTOMER INFORMATION**

Please print the required information below.

NATASHA Bell c/o LANGAN Engineering
Name

360 WEST 31ST St 7th FLR,
Address

NEW YORK, NY 10001
State Zip Code

212-479-5443
Telephone Number

OFFICE USE ONLY

Cashier / Search No.

PRU Staff
Accepted By/Initials:

Searched By:

Total Amount:

Note: Please make sure you complete this form and attach all required documents. Enclose a check or money order made payable to the NYC Fire Department and a stamped self-addressed envelope (with postage). Mail checks or money orders directly to the address and unit listed above. DO NOT MAIL CASH.

SECTION B **FUEL TANK REPORT - FEE $10.00 / PER REPORT**

130 Saint Felix Street Block 2111 Lot 40 BROOKLYN
House Number Street Name Borough

- [x] THE TOTAL AMOUNT AND SIZE OF EXISTING FUEL OIL / HEATING TANKS
- [x] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED FUEL OIL / HEATING TANKS
- [x] THE TOTAL AMOUNT AND SIZE OF EXISTING BURIED MOTOR VEHICLE TANKS
- [x] THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED BURIED MOTOR VEHICLE TANKS
- [x] MOST RECENT TANK / PIPING TEST RESULTS
- [x] HISTORY OF BURIED TANKS LEAKS

Note: Requests will be responded to within 10 business days.

PR3 (July-08)

NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Application for Records, Article 6 - New York State Public Officers Law, Freedom of Information Law

Complete Part I of this form. Please refer to instruction sheet for assistance in completing this form. If responsive records are located, you will be notified and informed of the required payment. Advance payment is required in check or money order payable to the City of New York before documents will be released. Send the complete application to the Records Access Officer at NYC DEP, Bureau of Legal Affairs, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373 or fax to (718) 595-6543

PART I. APPLICATION - Check Bureau(s) known or believed to have the record(s):

- ☐ Executive
- ☐ General Counsel
- ☐ Agency Chief Contracting Office
- ☐ Bureau of Customer Services (Water Bills)
- ☑ Bureau of Environmental Compliance
- ☑ Asbestos
- ☑ Hazardous Materials
- ☐ Air & Noise
- ☐ Environmental Control Board
- ☑ Bureau of Environmental Engineering
- ☑ Office of Environmental Planning and Assessment
- ☐ Bureau of Wastewater Treatment
- ☐ Sewer discharge violations
- ☐ Bureau of Water and Sewer Operations
- ☐ Water Records
- ☐ Sewer Records
- ☐ Bureau of Water Supply
- ☐ Water Quality
- ☐ DEP Police
- ☐ _____

I hereby apply to ❍ inspect or ◉ receive copies of the following records (use additional sheets as needed and attach):
Any records pertaining to : 130 Saint Felix Street, Brooklyn, New York (Block 2111, Lot 40)

Name: Natasha Bell Phone: (212) 479-5443 E-Mail: nbell@langan.com
Firm: Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Address: 21 Penn Plaza, 360 West 31st Street, 8th floor New York, New York 10001-2727
Signature: Natasha Bell Date: May 14, 2015

PART II. DISPOSITION OF REQUEST (*TO BE COMPLETED BY THE DEPARTMENT*)

· **APPROVED** · **APPROVED IN PART** - - To arrange for access to the records, please contact:

_____ _____ _____
(Department Representative) (Bureau) (Phone No.)

Number of Pages:_____ x$.25 per page = Cost:_____

· **DENIED** · **DENIED IN PART** - - for reason(s) checked: References are to Sec. 87 of the Public Officers Law.

- ☐ Exempt: State/Fed. Statute (2(a))
- ☐ Invasion of personal privacy (2(b))
- ☐ Competitive position injury (2(d))
- ☐ Exempt: Law Enforcement (2(e))
- ☐ Inter/Intra-agency material (2(g))
- ☐ (Other)_____

Brief Description of records not subject to disclosure_____

A denial, in whole or in part, may be appealed within 30 days by writing to the NYCDEP FOIL Appeals Officer, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

☐ **UNAVAILABLE** - - for reason(s) checked:

- Not described in sufficient detail
- Not maintained by this Department
- After search, no records responsive to request located
- (Other)_____

LOG NO.:_____

(Department Representative) **(Bureau)** **(Date)**

· · ·Fee Waived · · ·Check/M.O. received · · ·Check/M.O. requested DOC# 050303

May 14, 2015

Attn: Records Access Officer
New York City Department of Environmental Protection
Bureau of Legal Affairs
59-17 Junction Boulevard, 19th Floor
Corona, New York 11368

Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

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Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Natasha Bell

Natasha Bell
Staff Engineer

Environmental Protection

Emily Lloyd
Commissioner

John Rousakis
General Counsel

Brenda Farren
Records Access Officer

59-17 Junction Blvd.
Flushing, NY 11373

Tel. (718) 595-3448
Fax (718) 595-6543
Foil2@dep.nyc.gov

May 27, 2015

Ms. Natasha Bell
Langan
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001

Dear Ms. Bell:

Re: 130 Saint Felix Street, Brooklyn

We hereby acknowledge receipt of your **Freedom of Information Law** request dated May 14, 2015.

Your request is important to us and will be handled as expeditiously as possible. You are advised, however, that because of the large increase in the volume of such requests, your response may be delayed.

If you have any questions, please call Brenda Farren, Records Access Officer, at (718) 595-3448. Please refer to the ***FOIL log number(s)*** listed below when calling.

Sincerely,

Brenda Farren

Brenda Farren
FOIL Access Officer

FOIL log #(s) 135356, 135357, 135358, 135359

Environmental Protection

May 27, 2015

Emily Lloyd
Commissioner

Michael Gilsenan
Assistant Commissioner
Environmental Compliance

59-17 Junction Boulevard
Flushing, NY 11373

Natasha Bell
Langan Engineering & Environmental Services
21 Penn Plaza, 360 West 31 Street, 8 Floor
New York, NY 10001

Dear Ms. Bell:

In response to your Freedom of Information Law information request of 5/14/2015, the Division of Air/Noise Enforcement and Policy has searched its files for records pertaining to 130 Saint Felix Street and:

☐ Has located and enclosed the requested documents.

☐ A total of _____ pages of materials have been located, for which we are required to charge a fee of $.25 per page. Please send your check, in the amount of $_____, to:

Records Access Officer
NYC Department of Environmental Protection
59-17 Junction Boulevard, 19th Floor
Flushing, NY 11373

The check should be made payable to **The City of New York** and include the Log # noted below.

☐ Upon receipt of the check, copies of these records will be sent to you.

☑ Does not have the requested documents.

Sincerely,

Geraldine Kelpin
Director, Air/Noise Enforcement & Policy

Log # 135357

May 14, 2015

New York City Department of Health and Mental Hygiene
Attn: Chari Anhouse, Esq.
42-09 28th Street, CN31
Long Island City, New York 11101

Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Ms. Anhouse:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

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Please contact me at 212-479-5443 with any questions or send your response to my attention at nbell@langan.com or at the below address:

Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Natasha Bell

Natasha Bell
Staff Engineer

NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE
Mary T. Bassett, MD, MPH
Commissioner

Christopher Boyd
Assistant Commissioner
Bureau of Environmental
Sciences and Engineering

42-09 28th Street
14th Floor, CN-56
Queens, NY 11101

347-396-6077 (tel.)
347-396-6089 (fax)

June 12, 2015

Natasha Bell
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001

RE: Control #: 2015FR01423

Dear Ms. Bell:

In response to your recent request for the record(s) concerning the address/es listed below:

130 Saint Felix Street
Brooklyn, NY 11201

Please be advised that based upon a thorough review of the files available to the Office of Public Health Engineering, our records revealed there are no record(s) located in our files pertaining to your request.

Yours truly

Li Huang, PE
Director
Office of Public Health Engineering

NEW YORK CITY DEPARTMENT OF
HEALTH AND MENTAL HYGIENE
Mary T. Bassett, MD, MPH
Commissioner

Christopher D'Andrea
Director

Office of Environmental Investigations
125 Worth St., Room 630
New York, NY 10013

Tel. 1 646 632-6104
Fax 1 646 632-6105

June 15, 2015

E Langan
Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727

Request No: 2015FR01423

Dear Natasha Bell:

In response to your recent request for environmental records on:

- 130 Saint Felix Street, Brooklyn, NY

☒ The Office of Environmental Investigations has "NO" record of an investigation at the above address.

☐ Enclosed are copies of the requested records we have on file.

Sincerely,

Christopher D'Andrea, MS, CIH
Director

Email sent to r2foil.foil@dec.ny.gov on May 14, 2015 at 3:12 PM

Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Sir or Madam:

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Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th floor
New York, New York 10001-2727

Thank you in advance for your cooperation.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Natasha Bell

Natasha Bell
Staff Engineer

May 14, 2015

New York State Department of Health
Attn: Record Access Officer
Corning Tower, Room 2348
Albany, NY 12237

Re: Freedom of Information Request
130 Saint Felix Street
Block 2111, Lot 40
Brooklyn, New York
Langan Project No. 170366001

Dear Sir or Madam:

Pursuant to the Federal Freedom of Information Act (5 U.S.C 552 et seq.) dealing with the examination and duplication of documents maintained by public agencies, Langan is requesting any information or copies of files regarding environmental conditions on the above property, such as environmental permits, notices of violations, spill/discharge incidents, storage or disposal of hazardous substances, Underground Storage Tanks (USTs), Leaking Underground Storage Tanks (LTANKs), asbestos abatement, and any other environmental reports that your department may have.

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Natasha Bell

Natasha Bell
Staff Engineer

NEW YORK STATE OF OPPORTUNITY. | Department of Health

ANDREW M. CUOMO
Governor

HOWARD A. ZUCKER, M.D., J.D.
Commissioner

SALLY DRESLIN, M.S., R.N.
Executive Deputy Commissioner

May 18, 2015

Natasha Bell
Langan Engineering and Environmental Services, P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001

FOIL # 15-05-199
Project #170366001

Dear Ms. Bell:

This will acknowledge receipt of your request for records under the Freedom of Information Law, received by this office on May 18, 2015.

Your request has been forwarded to the appropriate Department program area(s) to identify documents that are responsive to your request and which may be made available pursuant to all applicable provisions of the Freedom of Information Law.

A determination as to whether your request is granted or denied will be reached in approximately 20 business days or we will notify you in writing if the responsible program area(s) should require additional time to locate, assemble, and review documents that may be responsive to your request.

Please note that, pursuant to Article 6 of the Public Officers Law, a charge may be applied to your request, including the actual cost of the medium used to respond to your Freedom of Information Law request and/or other related costs. When responsive records have been identified, you will be informed of any cost and how payment should be made.

Sincerely,

Shayla Johnson
Records Access Office

Appendix E

New York City Department of Building Records

LANGAN

NYC Buildings

NYC

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Property Profile Overview

130 ST FELIX STREET	BROOKLYN 11217	BIN# 3856615

ST FELIX STREET	130 - 130	Health Area	: 1200	Tax Block	: 2111
		Census Tract	: 35	Tax Lot	: 40
		Community Board	: 302	Condo	: NO
				Vacant	: NO

View DCP Addresses... Browse Block

View Zoning Documents | View Challenge Results | Pre - BIS PA | View Certificates of Occupancy

Cross Street(s):	LAFAYETTE AVENUE, HANSON PLACE		
DOB Special Place Name:			
DOB Building Remarks:	PARKING LOT (3/09)		
Landmark Status:		**Special Status:**	N/A
Local Law:	NO	**Loft Law:**	NO
SRO Restricted:	NO	**TA Restricted:**	NO
UB Restricted:	NO		
Environmental Restrictions:	N/A	**Grandfathered Sign:**	NO
Legal Adult Use:	NO	**City Owned:**	NO
Additional BINs for Building:	NONE		

Special District: DB - DOWNTOWN BROOKLYN

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, Coastal Erosion Hazard Area, or Special Flood Hazard Area. Click here for more information

Department of Finance Building Classification: G6-GARAGE/GAS STAT'N

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open
Complaints	0	0
Violations-DOB	0	0
Violations-ECB (DOB)	0	0
Jobs/Filings	1	
ARA / LAA Jobs	0	
Total Jobs	1	
Total Actions	0	

OR Enter Action Type:
OR Select from List:
Select...
AND Show Actions

Elevator Records
Electrical Applications
Permits In-Process / Issued
Illuminated Signs Annual Permits
Plumbing Inspections
Open Plumbing Jobs / Work Types
Facades
Marquee Annual Permits
Boiler Records
DEP Boiler Information
Crane Information
After Hours Variance Permits

Buildings

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

C of O PDF Listing for Property

Premises: 130 ST FELIX STREET BROOKLYN BIN: 3856615 Block: 2111 Lot: 40

Download the Adobe Acrobat Reader if you are unable to open the PDF files

To report a problem with any of these images, please use the CO Image Problem Form

JOB 302157528:	NO C/Os ISSUED OR NO IMAGE AVAILABLE

Back

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

Buildings

CLICK HERE TO SIGN UP FOR BUILDINGS NEWS

NYC Department of Buildings

Boiler Query

NO RECORDS WERE FOUND FOR BOILER FILE

Premises: BIN: Block: Lot:

VIOL	NUM	MD	SER#	STATUS	INSP-DATE	RECV-DATE	NAME

If you have any questions please review these Frequently Asked Questions, the Glossary, or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

DUPLICATE

No. 49016

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN

BUREAU OF BUILDINGS

CERTIFICATE OF OCCUPANCY

(ISSUED PURSUANT TO ARTICLE 1, SECTION 5, BUILDING CODE)

BROOKLYN, N. Y., Jan. 25. 1928

OWNER Benjamin Siegel

ARCHITECT Wm Levy.

This is to certify that the ~~NEW~~ ALTERED BUILDING

Located at 450-460 Stone av NW cor Sutter av

has been COMPLETED substantially according to the approved plans and specifications and the requirements of the BUILDING CODE, and PERMISSION is hereby granted for the OCCUPANCY of said building for the following purposes :

This certificate supersedes all previously issued certificates.

STORY	LIVE LOADS LBS. PER SQ. FT.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
~~Cellar~~					
~~Basement~~		Gasoline Station Office & Stores			
First Story					
Second "					
Third "					
Fourth "					
Fifth "					
Sixth "					
Seventh "					
Eighth "					
Ninth "					
Tenth to					
th					

Number of Buildings one (1) 26

Permit No. 8074

Work Completed 1/19/28

Per [signature]

Superintendent of Buildings

DUPLICATE

No. 49017

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN

BUREAU OF BUILDINGS

CERTIFICATE OF OCCUPANCY

(ISSUED PURSUANT TO ARTICLE 1, SECTION 5, BUILDING CODE)

BROOKLYN, N.Y. Jan 25 1928

OWNER Jos Rosenberg

ARCHITECT E. M. Adelsohn

This is to certify that the ~~NEW~~ ALTERED BUILDING

Located at 454 Hewitt Ave N.W. Cor Sutter Av

has been COMPLETED substantially according to the approved plans and specifications and the requirements of the BUILDING CODE, and PERMISSION is hereby granted for the OCCUPANCY of said building for the following purposes :

This certificate supersedes all previously issued certificates.

STORY	LIVE LOADS LBS. PER SQ. FT.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
~~Cellar~~					Ordinary use
~~Basement~~					None
First Story					Store
~~Second~~ "					
~~Third~~ "					
~~Fourth~~ "					
~~Fifth~~ "					
~~Sixth~~ "					
~~Seventh~~ "					
~~Eighth~~ "					
~~Ninth~~ "					
Tenth to					
...th					

Number of Buildings One (1)

Permit No. 9689 27

Work Completed 11/2/27

Superintendent of Buildings

Per [illegible]

10A-2065-26 CK

Form 55-25M-70142 155

DEPARTMENT OF HOUSING AND BUILDINGS

BAH BOROUGH OF Brooklyn, CITY OF NEW YORK

No. 108888

Date JUL 12 1943

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the [redacted] altered [redacted] building—premises located at 357/347 Belmont avenue, northeast Georgia avenue (259) Block 3736 Lot 1

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

N.B. or Alt. No. alt. 696/43 Construction classification— brick

Occupancy classification— Junk shop, etc. Height 1 stories, 8 feet.

Date of completion— const. 6/25/43 plumb. 7/7/43 Located in unrestricted Use District.

C - Area --- Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
First	Ground	2	-	2	Junk shop & junk dealer Junk storage.

Total:- Junk shop and junk dealer junk storage.

Note:- Two (2) tons of rags and four (4) tons of paper

No Automobile Storage.

Carroll

Borough Superintendent

(Page 1)

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there by any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that fixed by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended; nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the directionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with an authorized direction to remove encroachment into a public highway or other public place, whether attached or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions applying to a final or permanent certificate; it is not applicable to any building under the jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Housing and Buildings at this time; that Section 64 of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

Form 54-111M-701.11(52) 114

DEPARTMENT OF HOUSING AND BUILDINGS

BOROUGH OF BROOKLYN , CITY OF NEW YORK

No. 190961

Date SEP 23 1953

el

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the new ~~XXXXXXXXXX~~ building—premises located at 450/460 Stone Avenue N.E.C. of 349/353 Sutter Avenue

Block 3529 Lot 27

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

XXXXXXXXXXXX N.B. 514/52 Construction classification— Non-Fireproof

Occupancy classification— See below , Height 1 stories, 13'4" feet.

Date of completion— Const. 7.31.53 Plumb. 7.30.53 , Located in Local Retail Use District.

C Area , Height Zone at time of issuance of permit

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

Resolution 457-52-BZ adopted October 21, 1952 Bulletin 44 Volume 37

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
First	Ground	5	-	5	Gasoline service station, store, office, auto washing, lubritorium and minor auto repairs with hand tools only in the interior room and open truck pit.
Open Space		-	-	-	* Parking and storage of motor vehicles awaiting service.

Total: As stated above.

Note: *Parking and storage of motor vehicles awaiting service is for a temporary period of five (5) years - expires October 21, 1957.

Fire Department approval dated 9/23/53

Borough Superintendent

CERTIFICATE WILL BE NULL AND VOID IF ALTERED IN ANY MANNER OR ADDITIONS ARE MADE THERETO.

(Page 1)

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there be any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that fixed by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended; nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions *applying to a final or permanent certificate; it is not applicable to any building under the* jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Housing and Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and has certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

Form 54-89M-702959(57) 114

DEPARTMENT OF BUILDINGS

BOROUGH OF BROOKLYN, THE CITY OF NEW YORK

No. [illegible]

Date [illegible]

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C.26-181.0 to C26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No. 196641

To the owner or owners of the building or premises:

THIS CERTIFIES that the new—~~altered—existing~~—building—premises located at

450-460 Stone Avenue, North West Corner of Sutter Avenue (349-353)

Block 3529 Lot 27

, conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

N.B. or ~~Alt. No.~~ 514/1952 Construction classification— non-fl reproof

Occupancy classification— gasoline service station, auto washing, minor auto repairs with hand tools only, store, office Height 1 stories, 13'4" feet.

Date of completion— Located in Local Retail Use District.

C Area Height Zone at time of issuance of permit

~~constr. 12/6/57, plumb. 11/22/57~~

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: (Calendar numbers to be inserted here)

Resolution 457-52-BZ adopted October 21, 1952 Bulletin 44 Volume 37

Resolution 457-52-FZ adopted October 8, 1957 Bulletin 42 Volume 42

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED MALE	FEMALE	TOTAL	USE
first	ground	5	-	5	gasoline service station, store, office, auto washing, lubritorium and minor auto repairs with hand tools only in the interior room and open truck pit.
open	space	-	-	-	**parking and storage of motor vehicles awaiting service

TOTAL - as stated above

Fire Department approval dated January 15, 1958 (gasoline tanks, fuel oil)

** NOTE: Parking and storage of motor vehicles awaiting service is for a temporary period of five (5) years - expires October 8, 1962.

Borough Superintendent

CERTIFICATE WILL BE NULL AND VOID IF ALTERED IN ANY MANNER OR ADDITIONS ARE MADE THERETO.

(Page 1)

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there be any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that fixed by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended; nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions applying to a final or permanent certificate; it is not applicable to any building under the jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and has certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

Form 54-C (Rev. 4/62)—80M 201036(62) 114

DEPARTMENT OF BUILDINGS

BOROUGH OF Brooklyn, THE CITY OF NEW YORK

Date JAN 31 1963 No. 122749

CERTIFICATE OF OCCUPANCY

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

This certificate supersedes C. O. No.

THIS CERTIFIES that part of ~~altered existing~~ building—premises located at

450/460 Stone Avenue 349/353 Sutter Avenue Block 3529 Lot 27

That the zoning lot and premises above referred to are situated, bounded and described as follows:

BEGINNING at a point on the northwest side ~~west side~~ ~~side~~ ~~side~~ the corner formed by the intersection of Stone Avenue and Sutter Avenue

running thence north 100 feet; thence west 100 feet;

thence south 100 feet; thence east 100 feet;

running thence ..... feet; thence ..... feet;

to the point or place of beginning, conforms substantially to the approved plans and specifications, and to the requirements of the Building Code, the Zoning Resolution and all other laws and ordinances, and of the rules of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646F of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

N.B. ~~Permit~~ No.— 514-1952 Construction classification— nonfireproof

Occupancy classification— see occupancy below Height 1 stories, 13'4" feet.

Date of completion— const. 1-15-63 Located in C 2-3 in R 6 Zoning District.

at time of issuance of permit. plumb. 1-15-63

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals: 457-52-BZ adopted October 21, 1952 Bulletin 44 Volume 37 and The City Planning Commission: (Calendar numbers to be inserted here)

Resolution 457-52-BZ adopted November 7 1962 Bulletin 46 Volume 47

PERMISSIBLE USE AND OCCUPANCY

Off-Street Parking Spaces .....

Off-Street Loading Berths .....

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED	USE
First	on ground	5	gasoline service station, store, office, auto washing, lubritorium, and minor auto repairs with hand tools only in the interior room and open truck pit.
Open Space	-	-	***Temporary parking and storage of motor vehicles awaiting service for a period of five (5) years expires November 7, 1967.

TOTAL:- AS STATED ABOVE

FIRE DEPARTMENT APPROVAL DATED DECEMBER 18, 1962 -(Gasoline tank installation

***NOTE - Parking and storage of motor vehicles awaiting service is for a temporary period of five (5) years - Expires November 7, 1967

OFFICE COPY—DEPARTMENT OF BUILDINGS

Borough Superintendent

PERMISSIBLE USE AND OCCUPANCY (continued)

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED	USE

Borough Superintendent

rm 54-C (Rev. 7/64)-15M-701340(66) 114

DEPARTMENT OF BUILDINGS

ck BOROUGH OF Brooklyn , THE CITY OF NEW YORK

ate DEC 18 1968 No. 200902

CERTIFICATE OF OCCUPANCY

O CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

This certificate supersedes C. O. No.

THIS CERTIFIES that the new—~~altered, existing~~—building—premises located at

450/460 Stone Avenue Block 3526 Lot 327

That the zoning lot and premises above referred to are situated, bounded and described as follows:

EGINNING at a point on the northwest ~~southwest~~ corner formed by the intersection of Stone Av enue and Sutter Avenue

nning thence north 100'0" feet; thence west 100'0" feet;

nce south 100'0" feet; thence east 100'0" feet;

nning thence ..... feet; thence ..... feet;

the point or place of beginning, conforms substantially to the approved plans and specifications, and to the requirements of the Building Code, the Zoning Resolution and all other laws and ordinances, and of the rules of the Board of ndards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646e of the New York Charter have been complied th as certified by a report of the Fire Commissioner to the Borough Superintendent.

~~Post Alt.~~ No.— NB 514-1952 Construction classification— class 3

cupancy classification— see occupancy below . Height 1 stories, nonfireproof 13'4" feet.

te of completion— const. 12-4-68 . Located in C 2-3 in R 6 Zoning District.

time of issuance of permit. plumb. 11-18-68

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals:
d The City Planning Commission: (Calendar numbers to be inserted here)

esolution 457-52-BZ adopted October 21, 1952 Bulletin 44 Volume 37

PERMISSIBLE USE AND OCCUPANCY

esolution 457-52-BZ adopted November 7, 1962 Bulletin 46 Volume 47

f-Street Parking Spaces .....

f-Street Loading Berths .....

esolution 457-52-BZ Adopted October 31, 1967 Bulletin 45 Volume 52

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED	USE
irst	ground	5	gasoline service station, store, office, auto washing, lubritorium and minor auto repairs with hand tools only in the interior room and open truck pit. Parking and storage of motor vehicles awaiting service in open area.

TOTAL:- AS STATED ABOVE

IRE DEPARTMENT APPROVAL DATED APRIL 17, 1968-(gasoline tank installation)

Sewage Disposal:
Saintary Drainage ..... (DOES) (DOES NOT) Discharge Into Either Sanitary or Combined Sewer

Storm Drainage ..... (DOES) (DOES NOT) Discharge Into Either Storm or Combined Sewer

Samuel Pinsker
Borough Superintendent

FICE COPY—DEPARTMENT OF BUILDINGS

PERMISSIBLE USE AND OCCUPANCY (continued)

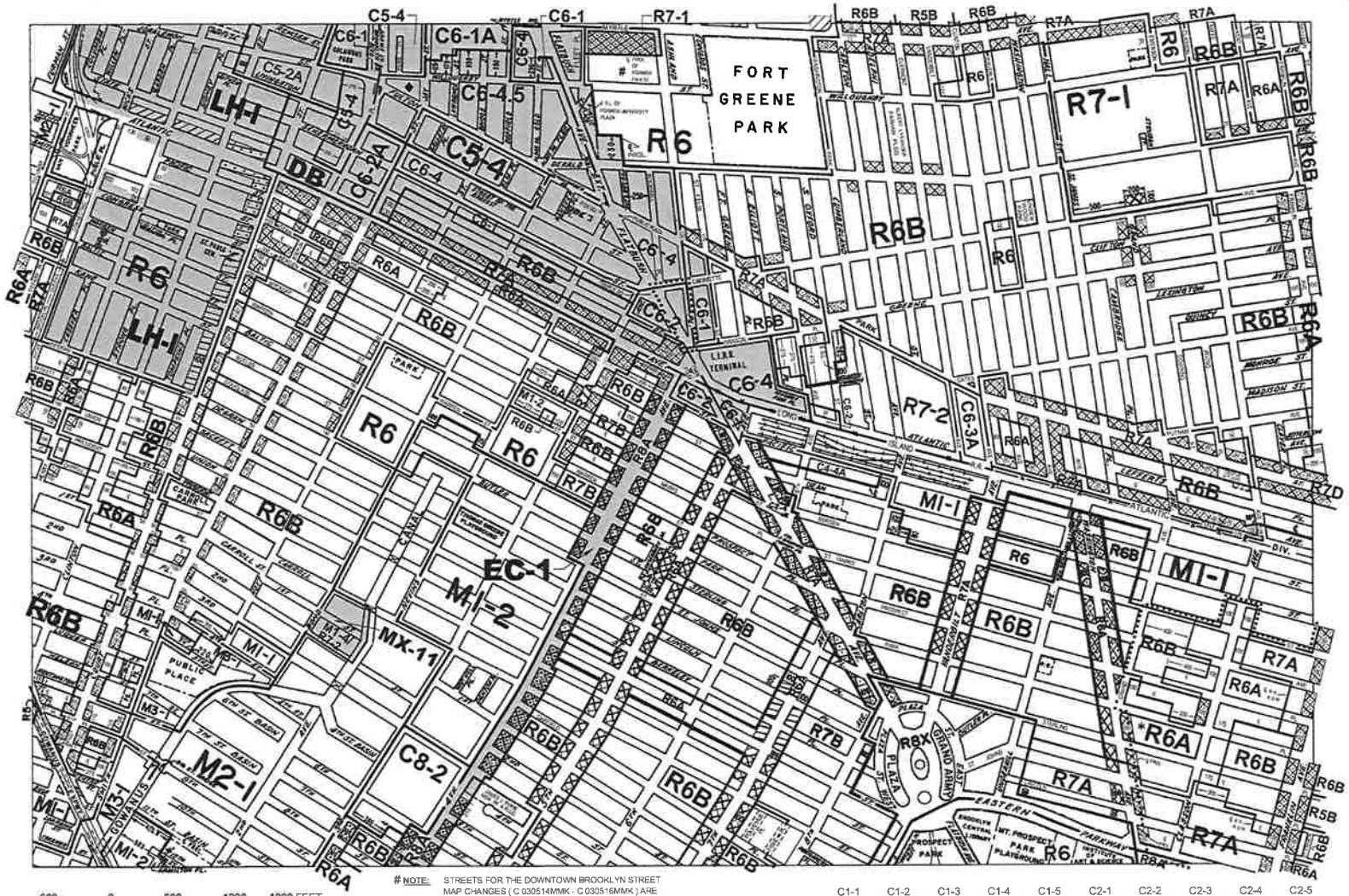
STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED	USE

Borough Superintendent

Appendix F

New York City Planning Commission Zoning Map

LANGAN



NOTE: STREETS FOR THE DOWNTOWN BROOKLYN STREET MAP CHANGES (C 030514MMK - C 030516MMK) ARE SHOWN ON THIS MAP PRIOR TO BECOMING EFFECTIVE IN ORDER TO LOCATE ZONING DISTRICT BOUNDARIES.

C1-1 C1-2 C1-3 C1-4 C1-5 C2-1 C2-2 C2-3 C2-4 C2-5

NOTE: Where no dimensions for zoning district boundaries appear on the zoning maps, such dimensions are determined in Article VII, Chapter 6 (Location of District Boundaries) of the Zoning Resolution.

ZONING MAP

THE NEW YORK CITY PLANNING COMMISSION

Major Zoning Classifications:

The number(s) and/or letter(s) that follows an R, C or M District designation indicates use, bulk and other controls as described in the text of the Zoning Resolution.

R – RESIDENTIAL DISTRICT

C – COMMERCIAL DISTRICT

M – MANUFACTURING DISTRICT

SPECIAL PURPOSE DISTRICT
The letter(s) within the shaded area designates the special purpose district as described in the text of the Zoning Resolution.

AREA(S) REZONED

Effective Date(s) of Rezoning:

* 09-24-2013 C 130213 ZMK
06-17-2013 C 130116 ZMK

Special Requirements:

For a list of lots subject to CEQR environmental requirements, see APPENDIX C.

For a list of lots subject to "D" restrictive declarations, see APPENDIX D.

For Inclusionary Housing designated areas on this map, see APPENDIX F.

CITY MAP CHANGE(S):

◆ AS CORRECTED 10-30-2014

N

MAP KEY

12b	12d	13b
16a	**16c**	17a
16b	16d	17b

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ZONING MAP **16c**

NOTE: Zoning information as shown on this map is subject to change. For the most up-to-date zoning information for this map, visit the Zoning section of the Department of City Planning website: www.nyc.gov/planning or contact the Zoning Information Desk at (212) 720-3291.

Appendix G

Aerial Photographs

LANGAN

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY 11217

Inquiry Number: 4289483.12
May 08, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography May 08, 2015

Target Property:

130 St. Felix Street

Brooklyn, NY 11217

Year	***Scale***	***Details***	***Source***
1924	Aerial Photograph. Scale: 1"=500'	Flight Date: July 01, 1924	USGS
1951	Aerial Photograph. Scale: 1"=500'	Flight Date: April 07, 1951	EDR Proprietary Aerial Viewpoint
1954	Aerial Photograph. Scale: 1"=500'	Flight Date: February 18, 1954	USGS
1961	Aerial Photograph. Scale: 1"=500'	Flight Date: April 12, 1961	EDR Proprietary Aerial Viewpoint
1966	Aerial Photograph. Scale: 1"=500'	Flight Date: February 23, 1966	USGS
1974	Aerial Photograph. Scale: 1"=500'	Flight Date: October 19, 1974	USGS
1978	Aerial Photograph. Scale: 1"=1000'	Flight Date: October 01, 1978	EDR
1980	Aerial Photograph. Scale: 1"=500'	Flight Date: July 25, 1980	USGS
1984	Aerial Photograph. Scale: 1"=500'	Flight Date: April 27, 1984	USGS
1991	Aerial Photograph. Scale: 1"=500'	Flight Date: March 09, 1991	USGS
1994	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: April 04, 1994	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP

INQUIRY #: 4289483.12
YEAR: 1924
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1951
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1954
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1961
= 500'
N
EDR

INQUIRY #: 4289483.12

YEAR: 1966

= 500'

N

EDR

INQUIRY #: 4289483.12
YEAR: 1974
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1978
= 1000'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1980
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 1984
= 500'
N
EDR

INQUIRY #: 4289483.12

YEAR: 1991

= 500'

N

EDR

INQUIRY #: 4289483.12
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 4289483.12
YEAR: 2011
= 500'
N
EDR

Appendix H

Sanborn Fire Insurance Maps

LANGAN

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY 11217

Inquiry Number: 4289483.3
May 08, 2015

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

5/08/15

Site Name:
130 St. Felix Street
130 St. Felix Street
Brooklyn, NY 11217

Client Name:
Langan Engineering, Inc.
360 W. 31st Street
New York, NY 10001

EDR Inquiry # 4289483.3

Contact: Michele Rogers

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Certified Sanborn Results:

Site Name: 130 St. Felix Street
Address: 130 St. Felix Street
City, State, Zip: Brooklyn, NY 11217
Cross Street:
P.O. # 170366001
Project: 130 St. Felix Street
Certification # CDCA-4A3E-AE04

Maps Provided:

2007	2001	1989	1980	1915
2006	1996	1988	1979	1904
2005	1995	1987	1977	1887
2004	1993	1986	1969	
2003	1992	1982	1950	
2002	1991	1981	1938	

Sanborn® Library search results
Certification # CDCA-4A3E-AE04

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

2007 Source Sheets

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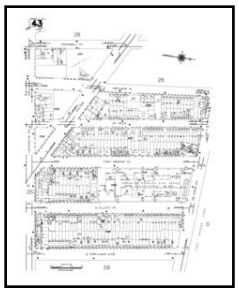

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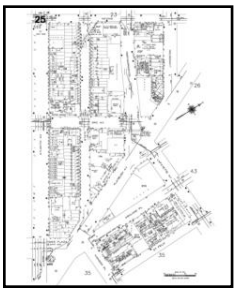

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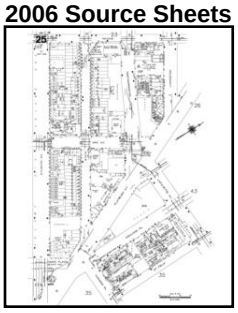

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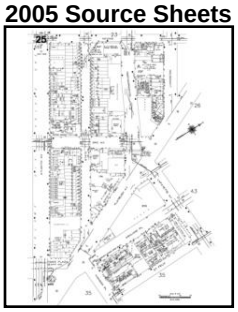
Volume 2, Sheet 43

2005 Source Sheets



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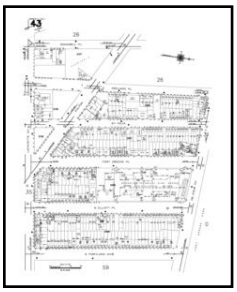

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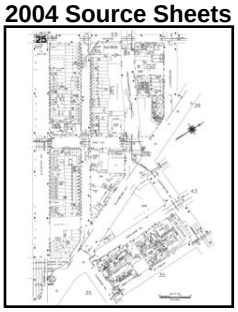

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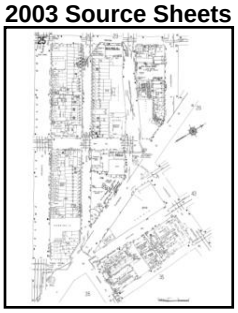
2003 Source Sheets



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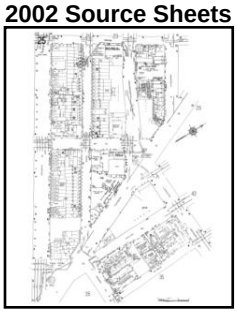
2002 Source Sheets



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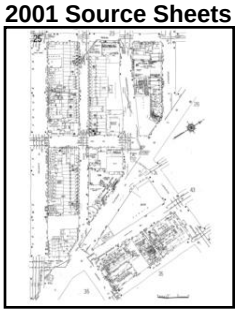

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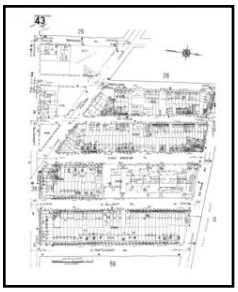

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1996 Source Sheets

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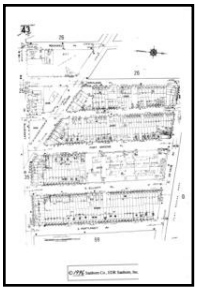

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1995 Source Sheets

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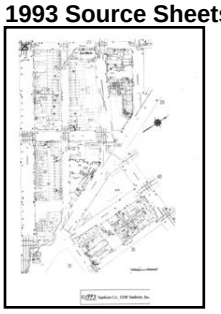
1993 Source Sheets



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1992 Source Sheets

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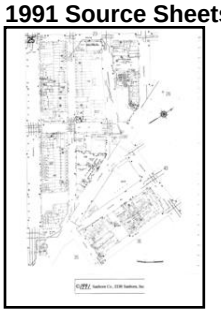
1991 Source Sheets



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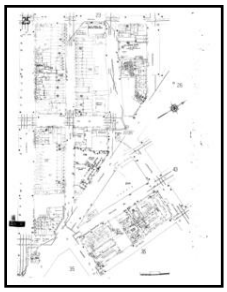

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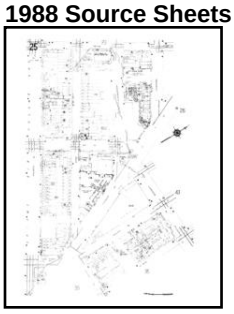

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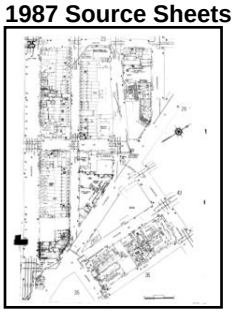

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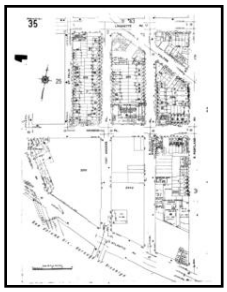

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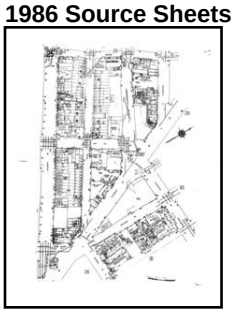

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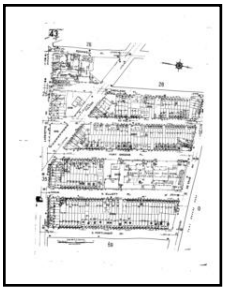

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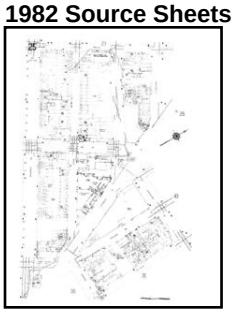

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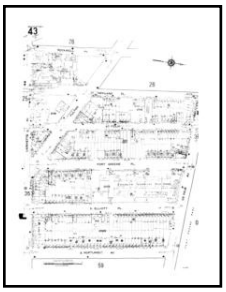

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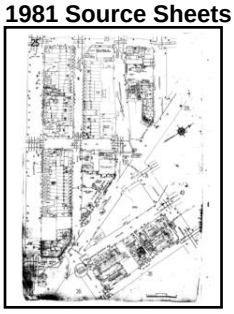

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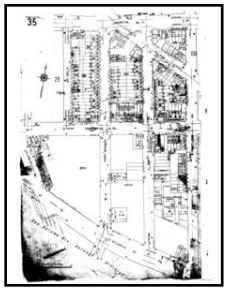

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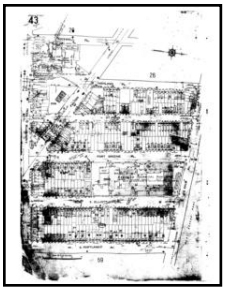

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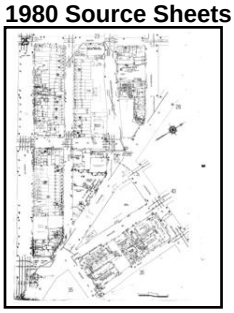

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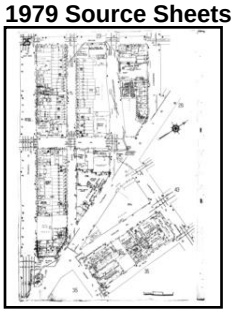

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1977 Source Sheets

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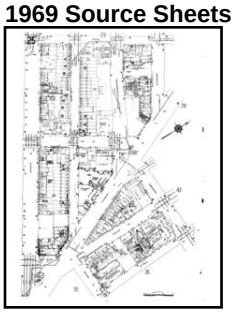
1969 Source Sheets



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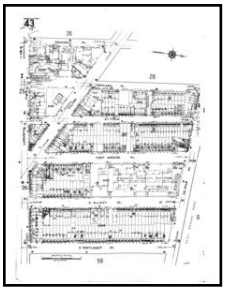

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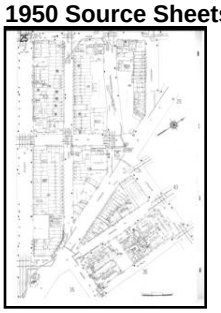

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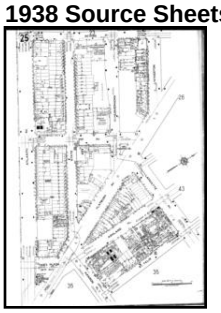
1938 Source Sheets



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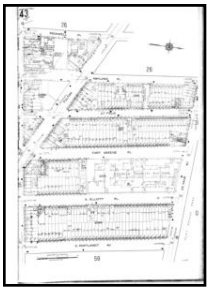

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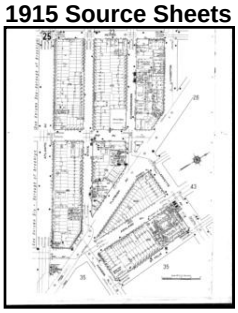

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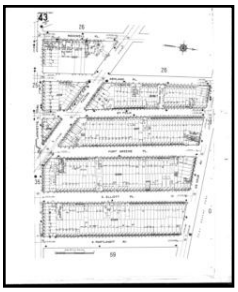

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1904 Source Sheets

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1887 Source Sheets

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Certification # CDCA-4A3E-AE04

Site Name:	130 St. Felix Street
Address:	130 St. Felix Street
City, ST, ZIP:	Brooklyn NY 11217
Client:	Langan Engineering, Inc.
EDR Inquiry:	4289483.3
Order Date:	5/8/2015 4:44:03 PM
Certification #	CDCA-4A3E-AE04
Copyright:	2007

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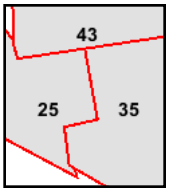

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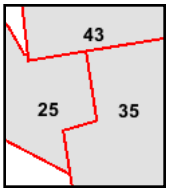

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EDR Inquiry:	4289483.3
Order Date:	5/8/2015 4:44:03 PM
Certification #	CDCA-4A3E-AE04
Copyright:	2005

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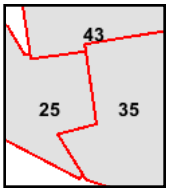

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Certification # CDCA-4A3E-AE04

Site Name:	130 St. Felix Street
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City, ST, ZIP:	Brooklyn NY 11217
Client:	Langan Engineering, Inc.
EDR Inquiry:	4289483.3
Order Date:	5/8/2015 4:44:03 PM
Certification #	CDCA-4A3E-AE04
Copyright:	2004

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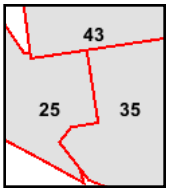

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2003 Certified Sanborn Map

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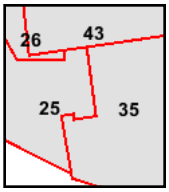

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2002 Certified Sanborn Map

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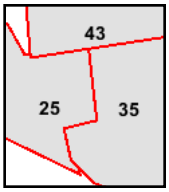

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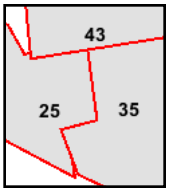

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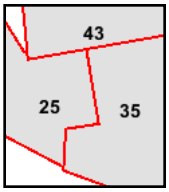

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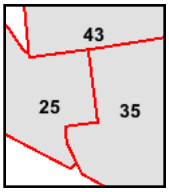

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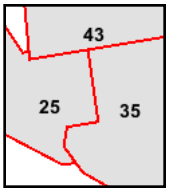

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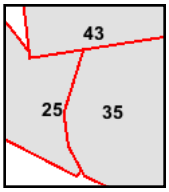

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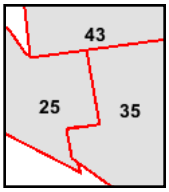

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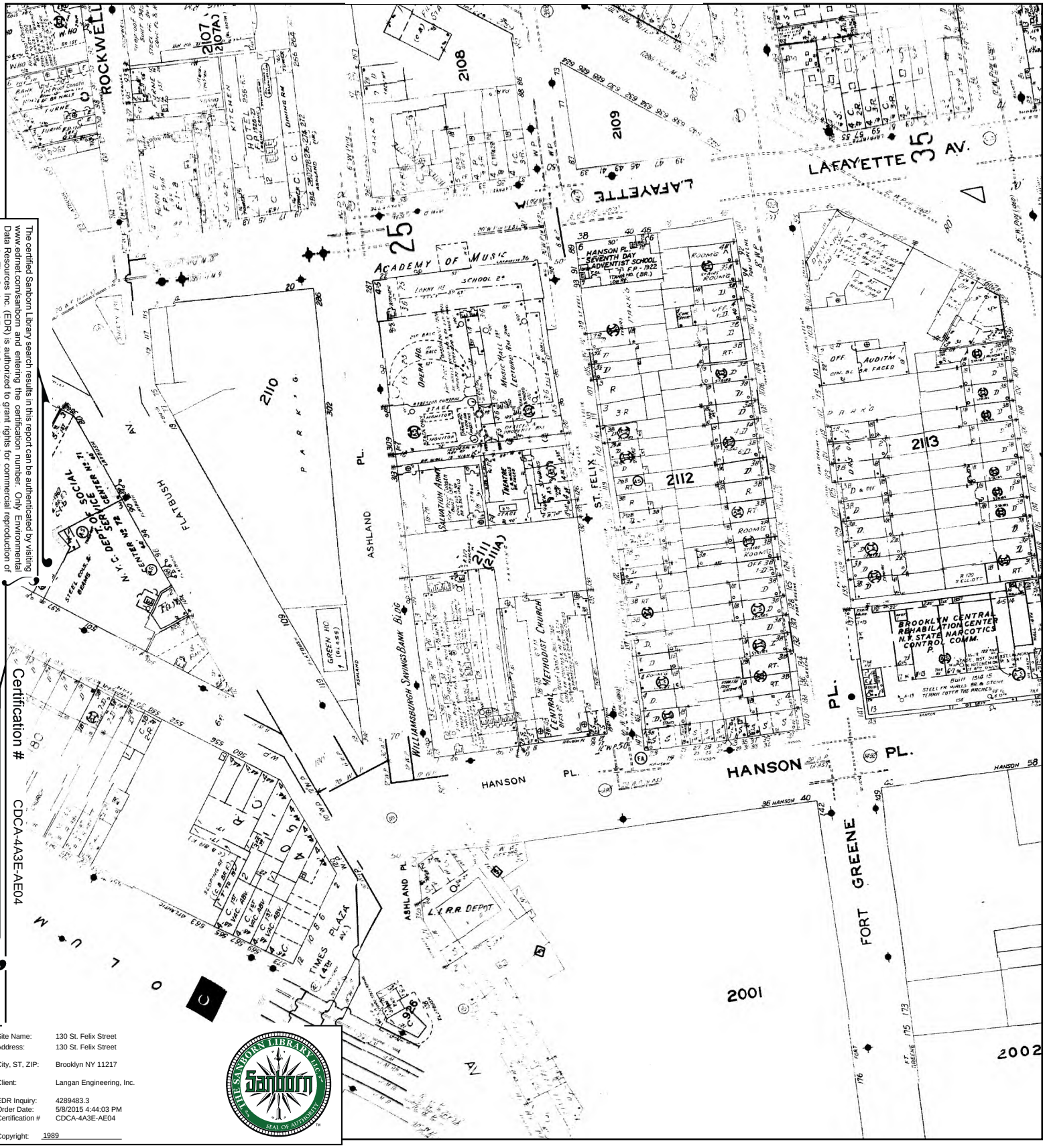

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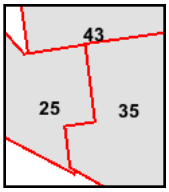

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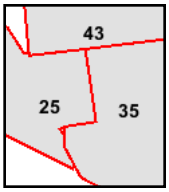

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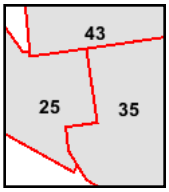

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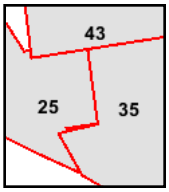

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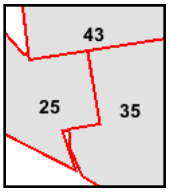

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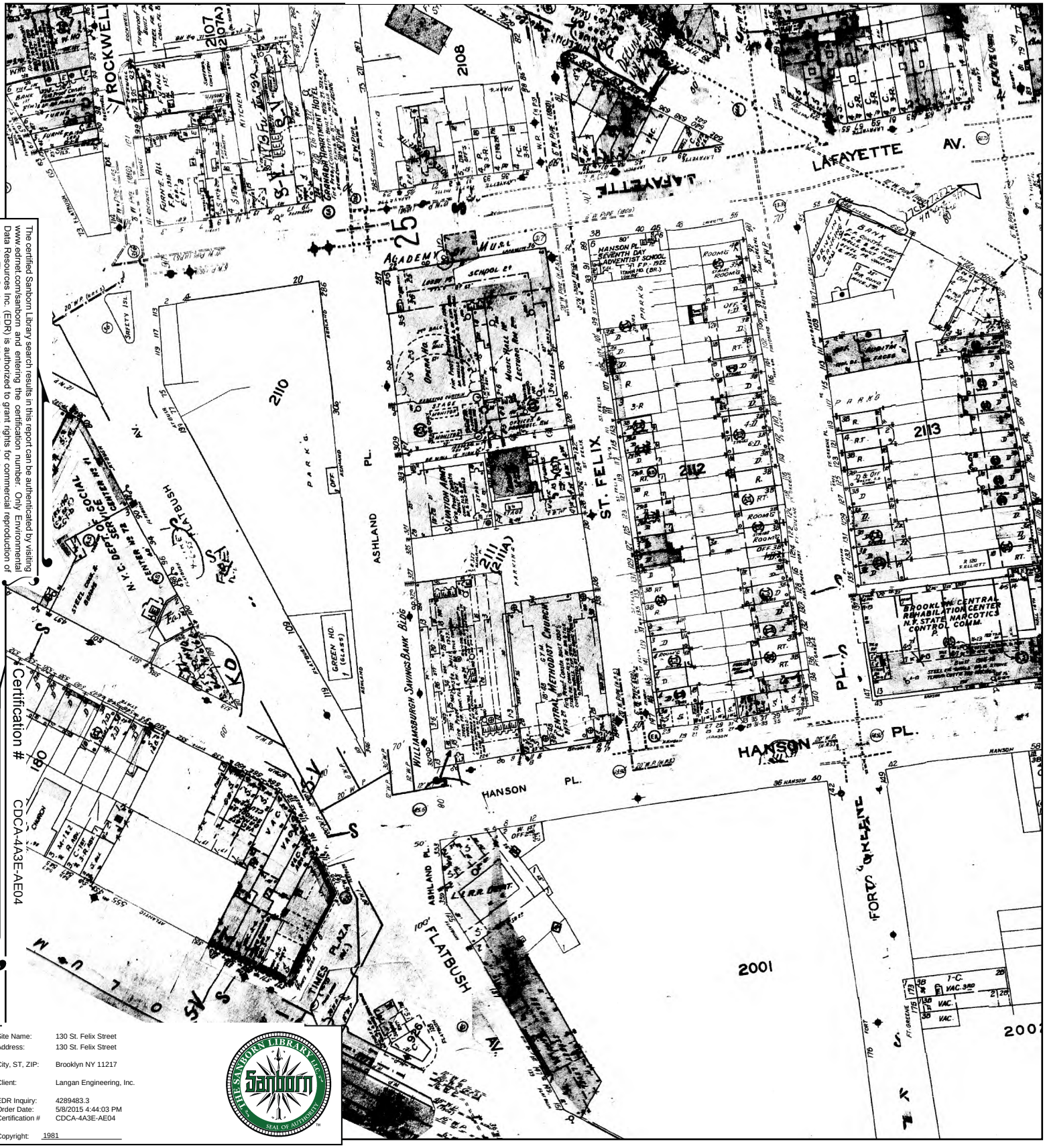
1981 Certified Sanborn Map



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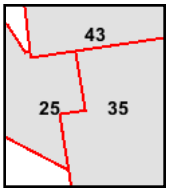

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Client: Langan Engineering, Inc.

EDR Inquiry: 4289483.3
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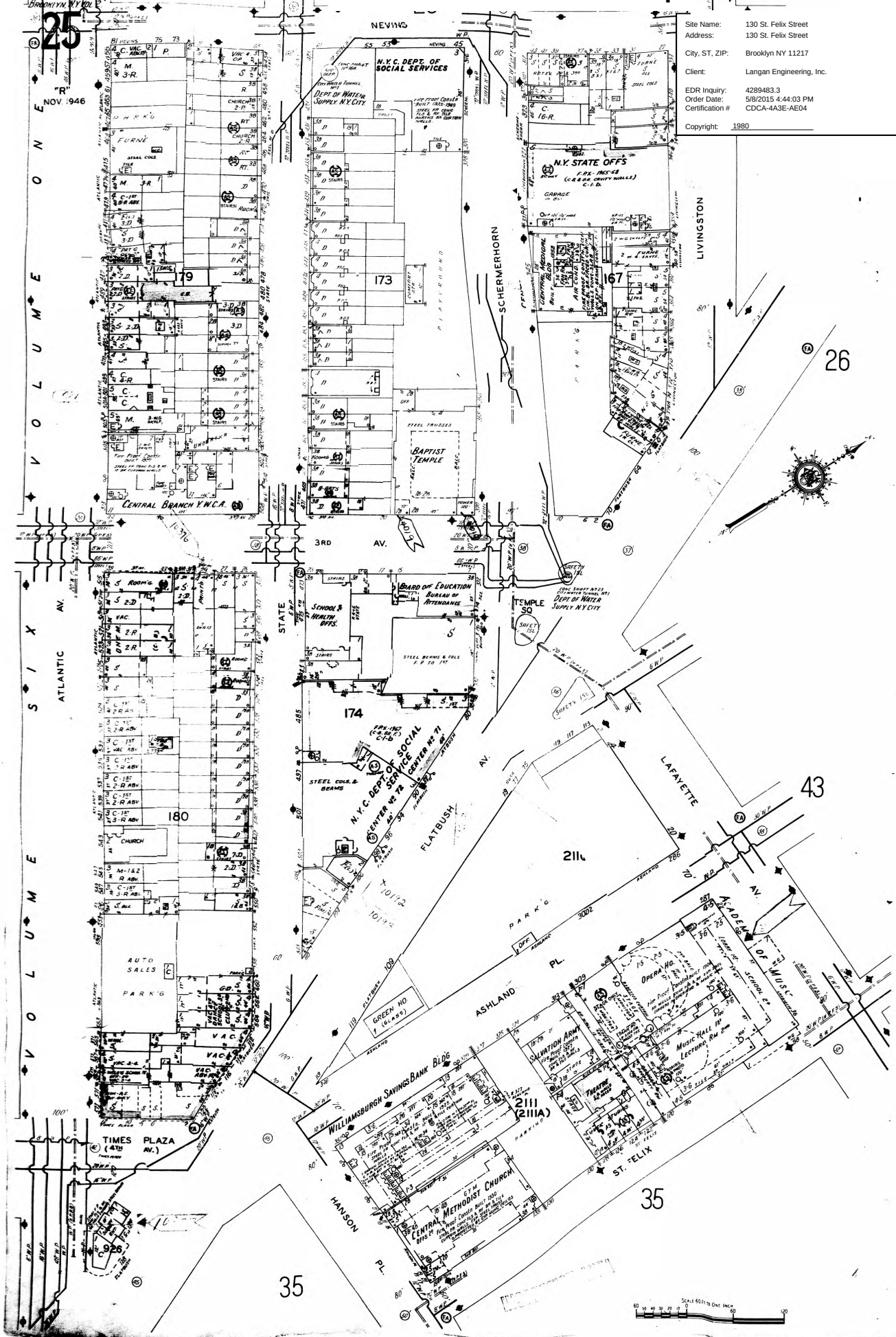
Copyright: 1980



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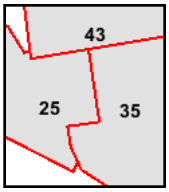

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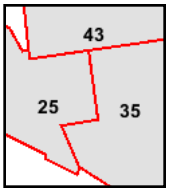

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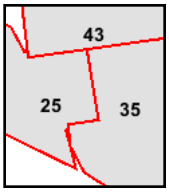

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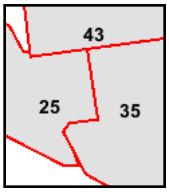

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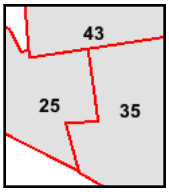

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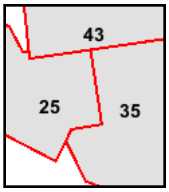

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1904 Certified Sanborn Map

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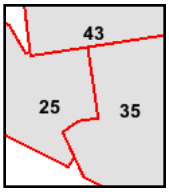
Certification # CDCA-4A3E-AE04

Site Name:	130 St. Felix Street
Address:	130 St. Felix Street
City, ST, ZIP:	Brooklyn NY 11217
Client:	Langan Engineering, Inc.
EDR Inquiry:	4289483.3
Order Date:	5/8/2015 4:44:03 PM
Certification #	CDCA-4A3E-AE04
Copyright:	1904

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



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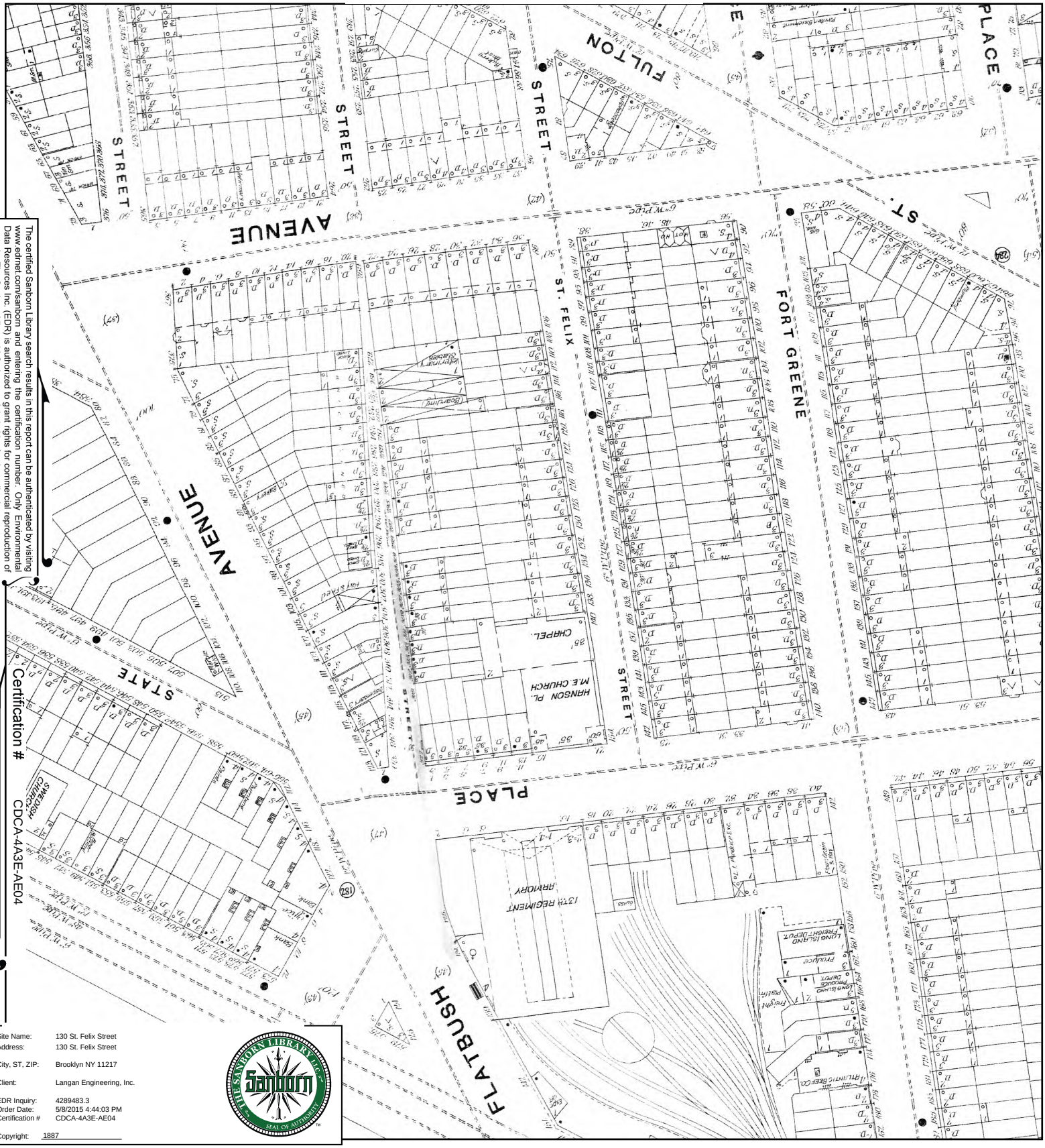
Volume 2, Sheet 43
Volume 2, Sheet 25

0 Feet 150 300 600

N

1887 Certified Sanborn Map



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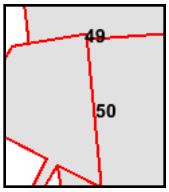
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600



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Volume 2, Sheet 50

N

Appendix I

Historical USGS Topographic Quadrangle Maps Summary

LANGAN

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY 11217

Inquiry Number: 4289483.4
May 08, 2015

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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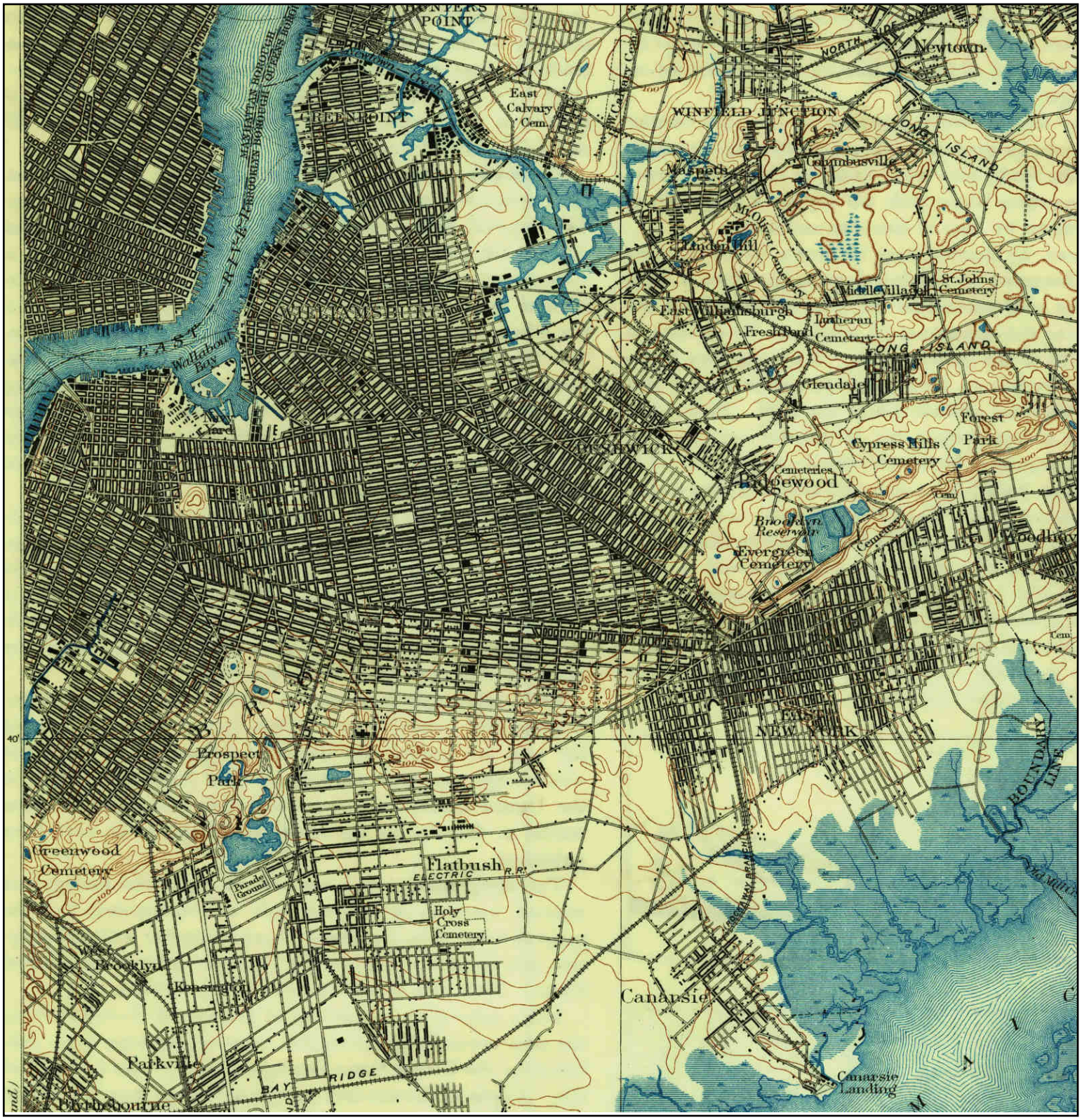
Historical Topographic Map

N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map

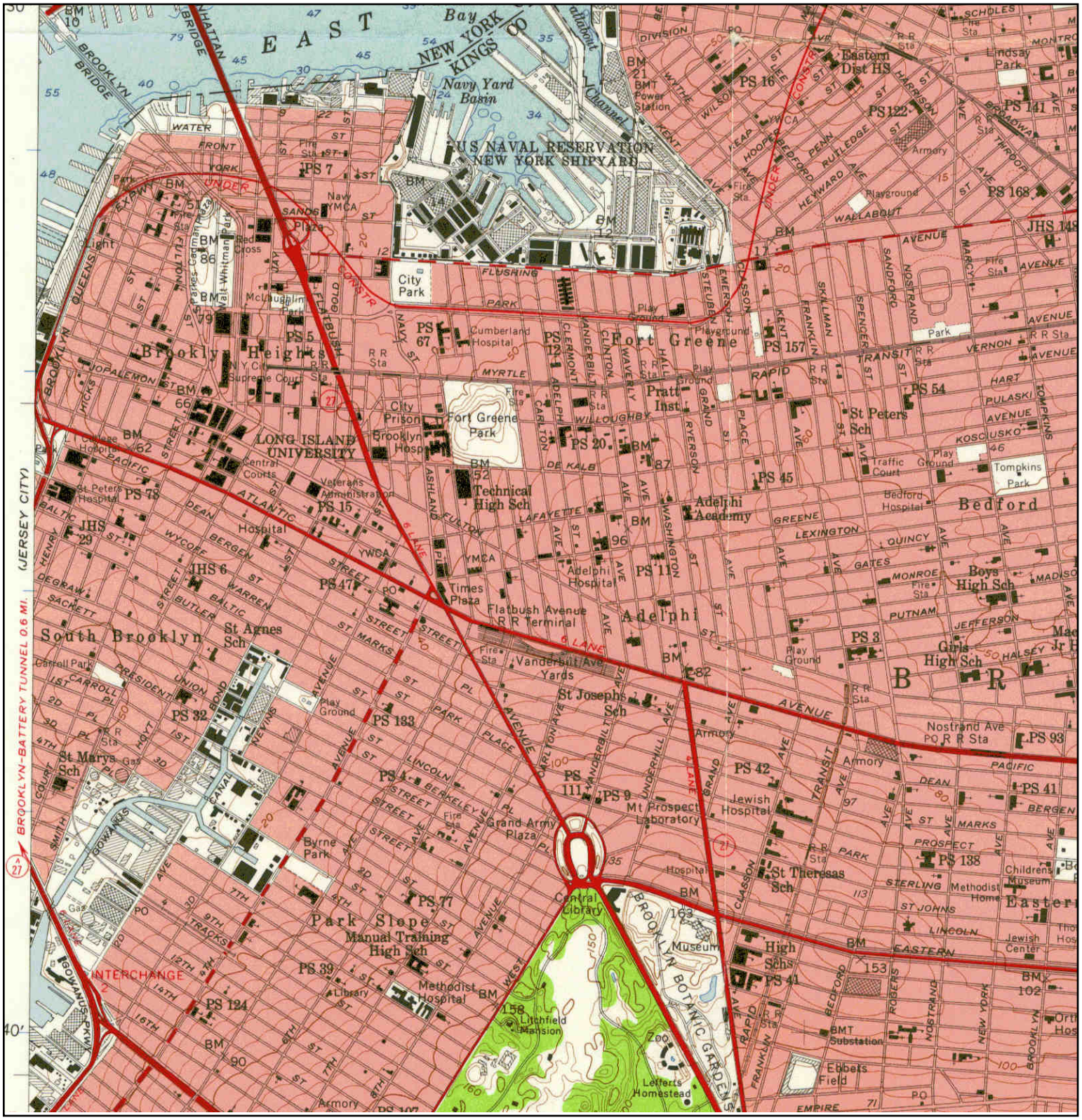


N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1924 REVISED FROM :1900 SERIES: 15 SCALE: 1:62500	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map

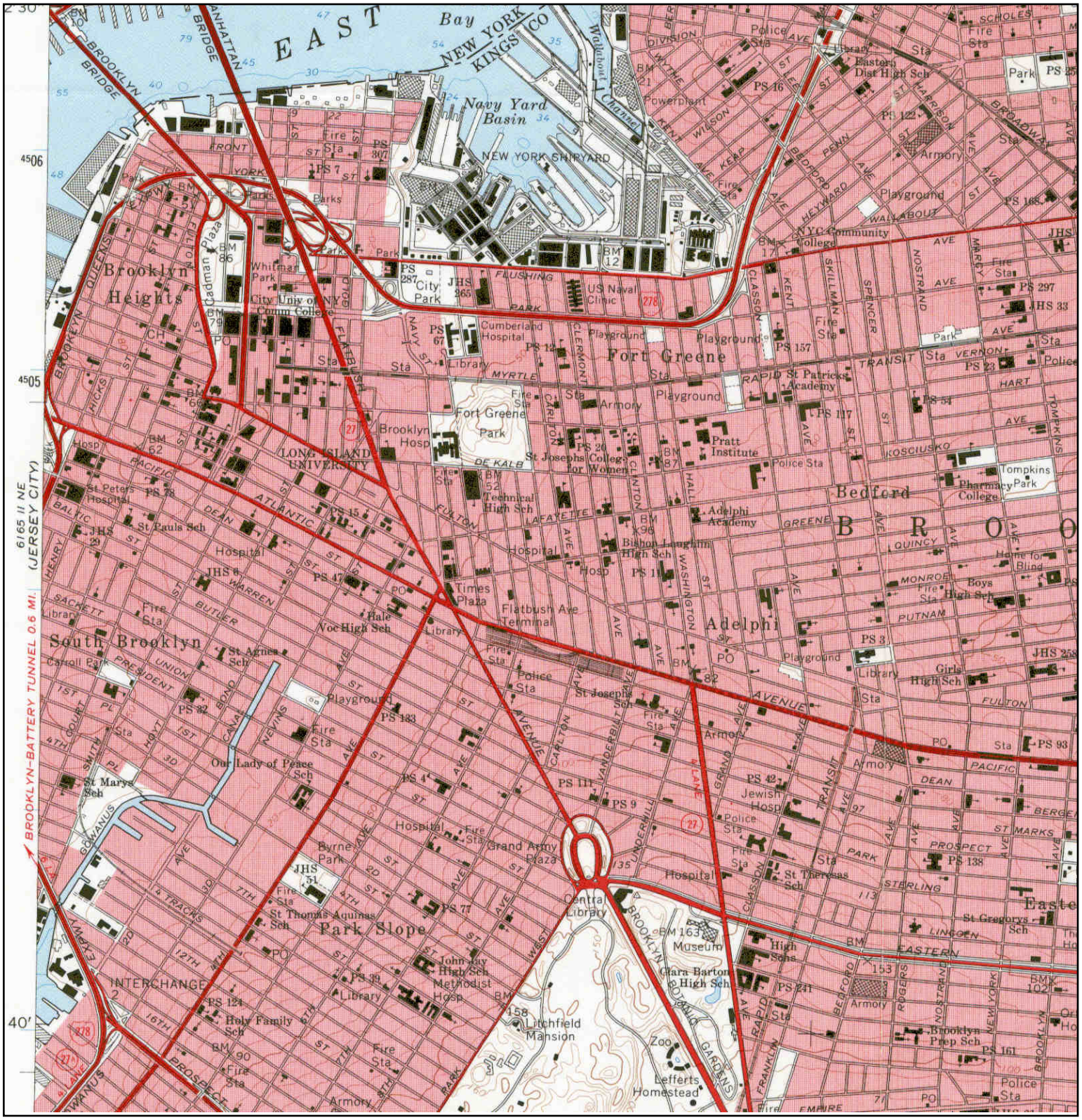
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1947 SERIES: 7.5 SCALE: 1:25000	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map



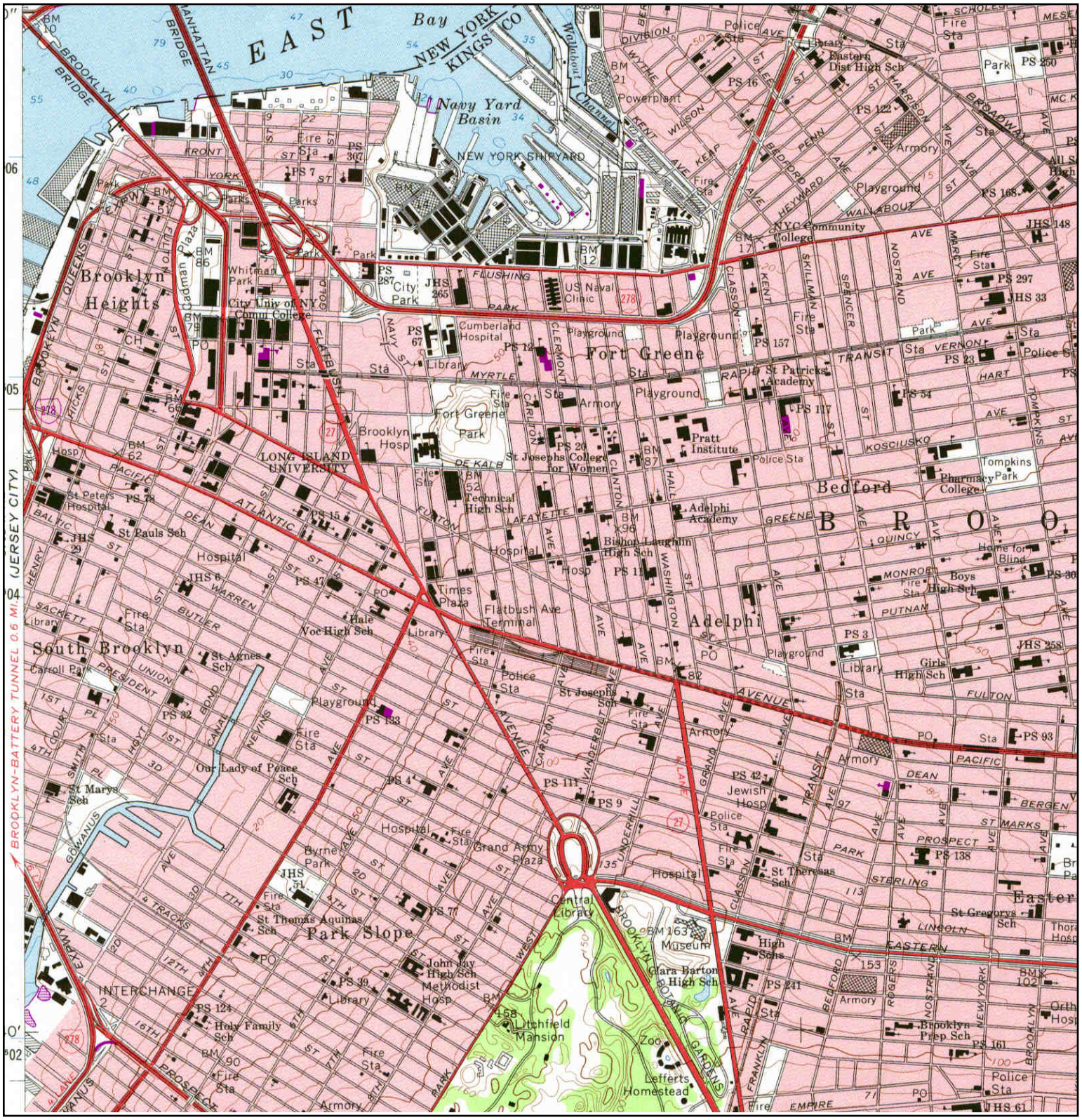
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1956 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map



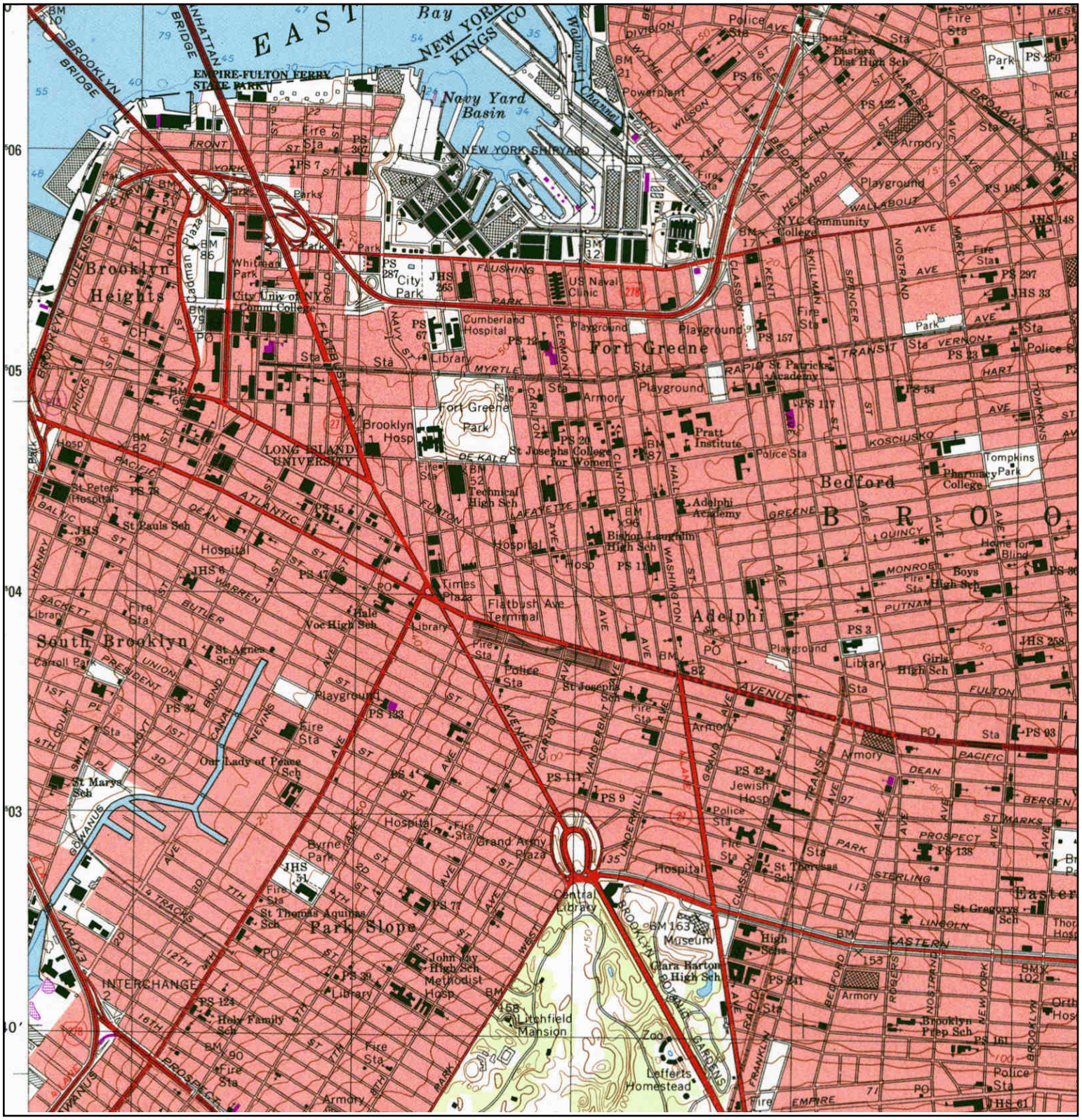
N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1979 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Historical Topographic Map



N	TARGET QUAD NAME: BROOKLYN MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 130 St. Felix Street ADDRESS: 130 St. Felix Street Brooklyn, NY 11217 LAT/LONG: 40.6858 / -73.9775	CLIENT: Langan Engineering, Inc. CONTACT: Michele Rogers INQUIRY#: 4289483.4 RESEARCH DATE: 05/08/2015

Appendix J

City Directory Abstract

LANGAN

130 St. Felix Street

130 St. Felix Street
Brooklyn, NY 11217

Inquiry Number: 4289483.5
May 11, 2015

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2005	Hill-Donnelly Corporation	-	X	X	-
2000	Cole Information Services	-	X	X	-
1997	NYNEX	X	X	X	-
1992	NYNEX Informantion Resource Co.	-	X	X	-
1985	NYNEX Information Resources Company	-	X	X	-
1980	New York Telephone	-	X	X	-
1976	New York Telephone	-	X	X	-
1973	New York Telephone	-	X	X	-
1970	New York Telephone	-	X	X	-
1965	New York Telephone	-	-	-	-
1960	New York Telephone	-	-	-	-
1949	New York Telephone Company	-	X	X	-
1945	New York Telephone	-	X	X	-
1940	New York Telephone	-	X	X	-
1934	R. L. Polk & Co.	X	X	X	-
1928	New York Telephone	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

130 St. Felix Street
Brooklyn, NY 11217

FINDINGS DETAIL

Target Property research detail.

SAINT FELIX

130 SAINT FELIX

Year	*Uses*	*Source*
1997	CANTOR David	NYNEX
1934	CAMAGIANI GIOVANNI	R. L. Polk & Co.
	CAMAJANI GIOVANNI VOCAL TCHR	R. L. Polk & Co.
	DUVAL GENE MUS TCHR H DO	R. L. Polk & Co.
	FUZH HETTIE MAID H	R. L. Polk & Co.
	PORRITORE EDW H	R. L. Polk & Co.
	WILLIAMS MILDRED LAB H	R. L. Polk & Co.
1928	CONNOR F H R	New York Telephone
	NEWINS E F A R	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

SAINT FELIX

109 SAINT FELIX

Year	Uses	Source
1992	GIRGENTI M & S	NYNEX Informantion Resource Co.
1976	ARGUELLES IVAN	New York Telephone
	FANNING E	New York Telephone
	WALKER ADELE	New York Telephone

111 SAINT FELIX

Year	Uses	Source
1985	BOYAJIAN ARMEN S	NYNEX Information Resources Company
	KLEIN J	NYNEX Information Resources Company
1928	WILSON CHAS B CAR WASHER	New York Telephone
	SHORTT GERTRUDE MRS R	New York Telephone

113 SAINT FELIX

Year	Uses	Source
1928	RIETFCH MARIE D R	New York Telephone

115 SAINT FELIX

Year	Uses	Source
1992	STARR L	NYNEX Informantion Resource Co.
	COLE P	NYNEX Informantion Resource Co.
	ALLEE S	NYNEX Informantion Resource Co.
1985	WAGMAN JAMES	NYNEX Information Resources Company
1928	SORENSEN LAURINE MRS R	New York Telephone

117 SAINT FELIX

Year	Uses	Source
1992	BETCAR RECORDING CO	NYNEX Informantion Resource Co.
	CARTER BETTY	NYNEX Informantion Resource Co.
	REDDING KAGLE	NYNEX Informantion Resource Co.
1985	BETCAR RECORDING CO	NYNEX Information Resources Company
	CARTER BETTY	NYNEX Information Resources Company
1980	REDDING MYIES	New York Telephone

FINDINGS

Year	Uses	Source
1976	MIXON DANIEL A	New York Telephone
1928	WILSON EMMA MRS R	New York Telephone

119 SAINT FELIX

Year	Uses	Source
1992	SOUTHGATE MICHAEL J	NYNEX Informantion Resource Co.
	ROACH T	NYNEX Informantion Resource Co.
1985	SOUTHGATE MTCHAEL J	NYNEX Information Resources Company
1980	SOUTHGATRE MICHAEL J	New York Telephone

121 SAINT FELIX

Year	Uses	Source
1992	LEVERETT S	NYNEX Informantion Resource Co.
1985	LEVERETT S	NYNEX Information Resources Company
1928	DELZELL FRANC	New York Telephone

122 SAINT FELIX

Year	Uses	Source
1928	BKLYN LITTLE THEATRE THE	New York Telephone

123 SAINT FELIX

Year	Uses	Source
1928	HARRINGTON JOHN C R	New York Telephone

125 SAINT FELIX

Year	Uses	Source
1928	JENSEN HARRY B R	New York Telephone

126 SAINT FELIX

Year	Uses	Source
1992	BROOKLYN SCHOOL OF MUSIC	NYNEX Informantion Resource Co.
1985	BROOKLYN SCHOOL OF MUSIC	NYNEX Information Resources Company
1976	BROOKLYN SCHOOL OF MUSIC	New York Telephone
1928	AUGAR HELEN MISS	New York Telephone
	BKLYN MUSIC SCHOOL SETTLEMENT	New York Telephone

127 SAINT FELIX

Year	Uses	Source
1992	TAYLOR ISAAC S	NYNEX Informantion Resource Co.
	TAYLOR ISAAC S	NYNEX Informantion Resource Co.
	HATT FRED	NYNEX Informantion Resource Co.

FINDINGS

Year	Uses	Source
1992	DEVIME-DELABIE LAURENT	NYNEX Informantion Resource Co.
1985	GALONSKY D T	NYNEX Information Resources Company
1976	HILL JESSIE	New York Telephone
1928	IPSER EMIL R	New York Telephone

129 SAINT FELIX

Year	Uses	Source
1985	FENNER A	NYNEX Information Resources Company
1928	TYLER AGNES E MRS R	New York Telephone

131 SAINT FELIX

Year	Uses	Source
1992	UNTALAN E JR	NYNEX Informantion Resource Co.
	PATSKY MATTHEW	NYNEX Informantion Resource Co.
	PATSKY M	NYNEX Informantion Resource Co.
	PATSKY DEBRA	NYNEX Informantion Resource Co.
1985	BORDEN ALBERT	NYNEX Information Resources Company
	JACKSON MILTON	NYNEX Information Resources Company
	SIRACUSE J D	NYNEX Information Resources Company
1980	STILES D	New York Telephone

132 SAINT FELIX

Year	Uses	Source
1928	CONDON THOS R	New York Telephone

133 SAINT FELIX

Year	Uses	Source
1992	SIMMONS LINDA	NYNEX Informantion Resource Co.
1976	BROOKS JOHN J	New York Telephone

134 SAINT FELIX

Year	Uses	Source
1928	LAWRENCE CHAS B R	New York Telephone

135 SAINT FELIX

Year	Uses	Source
1992	BOYD ROBERT F	NYNEX Informantion Resource Co.
	SILVERMAN KEN	NYNEX Informantion Resource Co.
	BARRETT A	NYNEX Informantion Resource Co.
1985	SILVERMAN KEN	NYNEX Information Resources Company

FINDINGS

Year	Uses	Source
1985	MAHONY L	NYNEX Information Resources Company
1980	WALKER BENJAMIN	New York Telephone
1928	THOMAS LOUIS J MRS R	New York Telephone

136 SAINT FELIX

Year	Uses	Source
1928	GOODMAN RAE MISS R	New York Telephone

137 SAINT FELIX

Year	Uses	Source
1992	LUGRIN J	NYNEX Informantion Resource Co.
1985	BIRD DAVID A	NYNEX Information Resources Company
	BIRD JULIE	NYNEX Information Resources Company
1976	BIRD DAVID A	New York Telephone

139 SAINT FELIX

Year	Uses	Source
1992	MILLER LISA	NYNEX Informantion Resource Co.
	FULTON ST ASSOCS	NYNEX Informantion Resource Co.
1985	HOLLAND MICHAEL	NYNEX Information Resources Company
1976	KALIBBO THAJEB	New York Telephone
1928	AMER BIBLE TRAINING SCHLOOL	New York Telephone
	BARNARD L W REV R	New York Telephone
	BOWE H EUGENE R	New York Telephone

141 SAINT FELIX

Year	Uses	Source
1992	ALTER MARTIN	NYNEX Informantion Resource Co.
1928	COLOSON WM	New York Telephone

144 SAINT FELIX

Year	Uses	Source
1992	HANSON PL CENTRAL METHODIST CHURCH	NYNEX Informantion Resource Co.
	WOMENS ADVOCATE MINISTRY INC	NYNEX Informantion Resource Co.
1985	HANSON PL CENTRAL METHODIST CHURCH	NYNEX Information Resources Company
	BROOKLYN BOYS CHORUSCHOOL	NYNEX Information Resources Company
1980	HANSON PL CENTRAL METHODIST CHURCH	New York Telephone
1976	HANSON PL HEADSTART METHODIST CHURCH	New York Telephone

FINDINGS

Year	Uses	Source
1976	PARKER RICHARD S REV	New York Telephone
	UNITED METHODIST CHURCH LONG ISLAND WEST DIST	New York Telephone
1928	MORGAN TALI ESEN MUSICAL DIRECTOR	New York Telephone

SAINT FELIX ST

109 SAINT FELIX ST

Year	Uses	Source
2000	C WIGGINS	Cole Information Services
	M GIRGENTI	Cole Information Services

111 SAINT FELIX ST

Year	Uses	Source
2000	REIKO ROSE	Cole Information Services
	TETSUYA TOGASHI	Cole Information Services

115 SAINT FELIX ST

Year	Uses	Source
2000	P COLE	Cole Information Services
	WOODFIN CAMP	Cole Information Services
	FL M ARIAS	Cole Information Services
	APARTMENTS	Cole Information Services

117 SAINT FELIX ST

Year	Uses	Source
2000	KEI SHIMADA	Cole Information Services
	KAGLE REDDING	Cole Information Services

119 SAINT FELIX ST

Year	Uses	Source
2000	MICHL J SOUTHGATE	Cole Information Services

123 SAINT FELIX ST

Year	Uses	Source
2000	PETER CURLEY	Cole Information Services

125 SAINT FELIX ST

Year	Uses	Source
2008	MARZAN	Cole Information Services

FINDINGS

126 SAINT FELIX ST

Year	Uses	Source
2013	MANO AMANO MEXICAN CULTURE	Cole Information Services
	SCIENCE LANGUAGE & ARTS	Cole Information Services
	BROOKLYN MUSIC SCHOOL	Cole Information Services
2008	BROOKLYN WALDORF SCHOOL	Cole Information Services
	BROOKLYN MUSIC SCHOOL	Cole Information Services
2000	BROOKLYN MUSC SCHL	Cole Information Services

127 SAINT FELIX ST

Year	Uses	Source
2000	B PURDY	Cole Information Services
	VARBARA RUBRO	Cole Information Services
	THERI KENNEDY	Cole Information Services
	WILLIAM APTLADORF	Cole Information Services

129 SAINT FELIX ST

Year	Uses	Source
2000	SARAH K FARKAS	Cole Information Services
	WINSTON PASSLEY	Cole Information Services
	SHARON CAMPBELL	Cole Information Services

131 SAINT FELIX ST

Year	Uses	Source
2000	E QUINN	Cole Information Services
	J DION	Cole Information Services

133 SAINT FELIX ST

Year	Uses	Source
2000	KIMSON ALBERT	Cole Information Services

135 SAINT FELIX ST

Year	Uses	Source
2000	NADINE ROPER	Cole Information Services

137 SAINT FELIX ST

Year	Uses	Source
2000	THOMAS FERLESCH	Cole Information Services
	J FERLESCH	Cole Information Services

FINDINGS

139 SAINT FELIX ST

Year	Uses	Source
2013	TRANSLATION RECRUITMENT SOLUTIONS	Cole Information Services
2008	LUDWIG GORDON	Cole Information Services

141 SAINT FELIX ST

Year	Uses	Source
2000	M RIEG	Cole Information Services
	MARTIN ALTER	Cole Information Services
	MARTIN ALTER	Cole Information Services

144 SAINT FELIX ST

Year	Uses	Source
2013	HANSON PL CENTRAL METHODIST CHURCH	Cole Information Services
2008	DANIELS COMMUNITY	Cole Information Services
2000	HANSON PREP SCHOOL	Cole Information Services
	HANSON PL COMM SVC	Cole Information Services
	HANSON PL CTRL CH	Cole Information Services
	MTRPLTN S DST THE	Cole Information Services

SOUNDVW DR LAKE SUCCES st

134 SOUNDVW DR LAKE SUCCES st

Year	Uses	Source
1973	Koeppel Adolp	New York Telephone
1970	Koeppel Adolph	New York Telephone

ST FELIX

101 ST FELIX

Year	Uses	Source
1934	GOLF MORRIS LAB R	R. L. Polk & Co.
	CARO TED LAB R	R. L. Polk & Co.
	CASSIDY JOHN LAB R	R. L. Polk & Co.
	CASTILLO DOMINGO LAB R	R. L. Polk & Co.
	COSTILLO ACLIOTO LAB R	R. L. Polk & Co.
	DOYLE EDW LAB R	R. L. Polk & Co.
	GALLANT ALF LAB R	R. L. Polk & Co.
	GALLANT LILLIAN LAB R	R. L. Polk & Co.
	LAVOIO JOS E CARP H	R. L. Polk & Co.

FINDINGS

Year	Uses	Source
1934	MOREAU RALPH LAB R	R. L. Polk & Co.
	MOREAU WM LAB R	R. L. Polk & Co.
	WELCH CHESTER ELECTN R	R. L. Polk & Co.

103 ST FELIX

Year	Uses	Source
1934	WEBER STANLEY A SHOPWORK TCHR DEPT EDUC R	R. L. Polk & Co.
	WEBER STANLEY A SHOPWORK TCHR DEPT EDUC R	R. L. Polk & Co.
	HOTCHKISS HARRY N METAL WKR H	R. L. Polk & Co.
	FISH ALICE R TCHR MAXWELL TCHRS TRAINING COLLEGE H	R. L. Polk & Co.
	BROWNELL THOUGHLO MACH R	R. L. Polk & Co.

105 ST FELIX

Year	Uses	Source
1997	THOMAS David	NYNEX
	THOMAS Valencia	NYNEX
	THOMAS David	NYNEX
1949	Fish A R	New York Telephone Company
1945	Fish A R	New York Telephone
1934	OGAARD PETREA L R	R. L. Polk & Co.
	FISH ALICE R TCHR MAXWELL TCHRS TCHRS TRAINING COLLEGE H	R. L. Polk & Co.
	FISH ALICE R TCHR MAXWELL TCHRS TRAINING COLLEGE H	R. L. Polk & Co.
	FISH ALICE R TCHR MAXWELL TCHRS TRAINING COLLEGE H	R. L. Polk & Co.

107 ST FELIX

Year	Uses	Source
1997	MERCADO Christine	NYNEX
1934	HADDOCKS CHAS C BELLMN H	R. L. Polk & Co.
	HAWLEY SAML LAB R	R. L. Polk & Co.
	MARDENBOROUGH LOUISE R	R. L. Polk & Co.
	WITHFIELD CATO H	R. L. Polk & Co.

109 ST FELIX

Year	Uses	Source
1997	GIRGENTI M & S	NYNEX
	BELLAMY Spencer	NYNEX

FINDINGS

Year	Uses	Source
1997	WIGGINS C	NYNEX
1934	LEACH WALTER C LAB H	R. L. Polk & Co.
	YOUNG DAVID LAB H	R. L. Polk & Co.
	YOUNG DAVID N LAB H	R. L. Polk & Co.
	CALDWELL FANNIE M MRS R	R. L. Polk & Co.
	CALDWELL HOGAN R	R. L. Polk & Co.
	RICKS JAS E LAB H	R. L. Polk & Co.

111 ST FELIX

Year	Uses	Source
1997	YAMAGISHI Kiyomi	NYNEX
	TOGASHI Tetsuya	NYNEX
	Vanzi Express	NYNEX
	OKOSHI Noriyuki	NYNEX
1934	ROUND IRENE OFFICE SEC R	R. L. Polk & Co.
	ROUND MARGUERILE TEL OPR R	R. L. Polk & Co.
	WILLARD ACCT HENRY W OSGOOD R	R. L. Polk & Co.
	WILSON WYATT INSPR R	R. L. Polk & Co.
	ROUND HORACE W PRINTER H	R. L. Polk & Co.
	ROSE ISRAEL PNTR R	R. L. Polk & Co.
	RICKERS BENJ R	R. L. Polk & Co.
	MODIG AXEL PNTR R	R. L. Polk & Co.
	HUTCHINSON ROBT R	R. L. Polk & Co.
	BRASELL PERCY R	R. L. Polk & Co.

115 ST FELIX

Year	Uses	Source
1997	CAMP Woodfin	NYNEX
	ARIAS M	NYNEX
	COLE P	NYNEX
1934	STEWART MARY LAB R	R. L. Polk & Co.
	COMMUNITI JOHN LAB R	R. L. Polk & Co.
	BOHMAN ANDREW FCTY WKR R	R. L. Polk & Co.
	BOHMAN ANDERS MACH H	R. L. Polk & Co.

116 ST FELIX

Year	Uses	Source
1945	Martin D D b	New York Telephone
	Laffel Realty Inc	New York Telephone

FINDINGS

Year	Uses	Source
1940	Martin D D b	New York Telephone
	Laffel Realty Inc	New York Telephone

ST FELIX ST

101 ST FELIX ST

Year	Uses	Source
2005	h Blair Jeffrey	Hill-Donnelly Corporation
	Gliford T	Hill-Donnelly Corporation

103 ST FELIX ST

Year	Uses	Source
2005	u Lamb Esther	Hill-Donnelly Corporation

ST FELIX st

103 ST FELIX st

Year	Uses	Source
1973	George Enoch	New York Telephone

ST FELIX ST

105 ST FELIX ST

Year	Uses	Source
2005	H Thomas David	Hill-Donnelly Corporation
	Thomas David	Hill-Donnelly Corporation

ST FELIX st

105 ST FELIX st

Year	Uses	Source
1973	Cooper Dorothy	New York Telephone
	Thomas David	New York Telephone
1970	James Evelyn	New York Telephone

ST FELIX ST

107 ST FELIX ST

Year	Uses	Source
2005	h Swensen K	Hill-Donnelly Corporation

FINDINGS

ST FELIX st

107 ST FELIX st

Year	Uses	Source
1973	Cole Jon	New York Telephone

ST FELIX ST

109 ST FELIX ST

Year	Uses	Source
2005	h Wiggins C	Hill-Donnelly Corporation
	h Girgenti Mon Ica o	Hill-Donnelly Corporation

ST FELIX st

109 ST FELIX st

Year	Uses	Source
1973	Karlick Gideon	New York Telephone
	Joy Mark H	New York Telephone
	Do L	New York Telephone

ST FELIX ST

111 ST FELIX ST

Year	Uses	Source
2005	Okoshl Noriyuk	Hill-Donnelly Corporation
	HTo ashi M	Hill-Donnelly Corporation

ST FELIX st

111 ST FELIX st

Year	Uses	Source
1973	Ashley Thomas	New York Telephone

ST FELIX ST

115 ST FELIX ST

Year	Uses	Source
2005	h Co e P	Hill-Donnelly Corporation

FINDINGS

ST FELIX st

115 ST FELIX st

Year	*Uses*	*Source*
1973	Infante Cesar E	New York Telephone
	Flowers Edward	New York Telephone
	Straus S	New York Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
130 St. Felix Street	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
101 ST FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
101 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
103 ST FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
103 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
103 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
105 ST FELIX	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1940, 1928
105 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
105 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
107 ST FELIX	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
107 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
107 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
109 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
109 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
109 ST FELIX	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
109 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
109 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
111 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
111 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
111 ST FELIX	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
111 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
111 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
113 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
115 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
115 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
115 ST FELIX	2013, 2008, 2005, 2000, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1928
115 ST FELIX ST	2013, 2008, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
115 ST FELIX st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
116 ST FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1934, 1928
117 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
117 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
119 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
119 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
121 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
122 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
123 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
123 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
125 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
125 SAINT FELIX ST	2013, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
126 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
126 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

FINDINGS

Address Researched	Address Not Identified in Research Source
126 SAINT FELIX ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
127 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
127 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
129 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
129 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
131 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
131 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
132 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
133 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1985, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
133 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
134 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
134 SOUNDVW DR LAKE SUCCES st	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1965, 1960, 1949, 1945, 1940, 1934, 1928
135 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
135 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
136 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
137 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
137 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
139 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1980, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
139 SAINT FELIX ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
141 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
141 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
144 SAINT FELIX	2013, 2008, 2005, 2000, 1997, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934
144 SAINT FELIX ST	2013, 2008, 2005, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928
144 SAINT FELIX ST	2005, 2000, 1997, 1992, 1985, 1980, 1976, 1973, 1970, 1965, 1960, 1949, 1945, 1940, 1934, 1928

Appendix K

Environmental Lien Search

LANGAN

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY

Inquiry Number: 4289483.7
May 14, 2015

The EDR Environmental LienSearch™ Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

130 St. Felix Street
130 St. Felix Street
Brooklyn, NY

RESEARCH SOURCE

Source 1: Kings City Register
Source 2: Kings County Clerk
Source 3: Kings Department of Finance

DEED INFORMATION

Deed 1:

Type of Deed: Deed

Grantor: HSBC Bank USA, National Association, successor by merger to HSBC Bank USA, successor by merger to Republic Bank of New York, N. A. successor by conversion to Republic National Bank of New York

Grantee: CJUF II Hanson LLC

Deed Recorded: 05/23/2005

Instrument: 2005000298200

LEGAL DESCRIPTION

Lot 40, Block 2111, also commonly known as 130 St. Felix Street, situated and lying in the City of Brooklyn, Kings County, State of New York

Property Identifier: Block 2111 Lot 40

ENVIRONMENTAL LIEN

Found: ☐ Not Found: ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Found: ☐ Not Found: ☒

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2005051700981001001ED4ED

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2005051700981001 Document Date: 05-16-2005 Preparation Date: 05-17-2005
Document Type: DEED
Document Page Count: 3

PRESENTER:	**RETURN TO:**
COMMONWEALTH/LAWYERS TITLE 2 GRAND CENTRAL TOWERS 140 EAST 45TH STREET, 22ND FLOOR NEW YORK, NY 10017 212-949-0100 NY050332K	JOYCE LAW, ESQ. CRAVATH, SWAINE & MOORE LLP 825 EIGHTH AVENUE NEW YORK, NY 10019

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	2111	1	Entire Lot	1 HANSON PLACE

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* Document ID_____ *or* _____ Year____ Reel ___ Page ____ *or* File Number_____

PARTIES

GRANTOR/SELLER:	**GRANTEE/BUYER:**
HSBC BANK USA, NATIONAL ASSOCIATION 1 WEST 39TH STREET NEW YORK, NY 10018	CJUF II HANSON LLC C/O THE DERMOT COMPANY, INC., 320 WEST 57TH STREET, 5TH FLOOR NEW YORK, NY 10019

FEES AND TAXES

Mortgage			Recording Fee: $ 52.00
Mortgage Amount:	$	0.00	Affidavit Fee: $ 0.00
Taxable Mortgage Amount:	$	0.00	NYC Real Property Transfer Tax Filing Fee:
Exemption:			$ 165.00
TAXES: County (Basic):	$	0.00	NYS Real Estate Transfer Tax:
City (Additional):	$	0.00	$ 283,000.00
Spec (Additional):	$	0.00	
TASF:	$	0.00	
MTA:	$	0.00	
NYCTA:	$	0.00	
Additional MRT:	$	0.00	
TOTAL:	$	0.00	

NYC HPD Affidavit in Lieu of Registration Statement

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK

Recorded/Filed 05-23-2005 11:57
City Register File No.(CRFN):
2005000298200

City Register Official Signature

CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT - THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY

THIS INDENTURE, made the 16th day of May, 2005

BETWEEN HSBC Bank USA, National Association, successor by merger to HSBC Bank USA, successor by merger to Republic Bank of New York, N.A., successor by conversion to Republic National Bank of New York, successor by merger to Republic Bank for Savings, National Association, successor by conversion to Republic Bank for Savings, formerly known as The Manhattan Savings Bank, successor by merger to The Williamsburg Savings Bank, a National Association, having an address at 1 West 39th Street, New York, NY 10018.

party of the first part, and

CJUF II HANSON LLC, a Delaware limited liability company, having an office at c/o The Dermot Company, Inc. 320 West 57th Street, 5th Floor, New York, NY 10019

party of the second part,

WITNESSETH, that the party of the first part, in consideration of

dollars

paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE ATTACHED SCHEDULE 'A'

SAID PREMISES BEING KNOWN AS ONE HANSON PLACE, BROOKLYN, NY

SECTION: 7 BLOCK: 2111 LOT: 1

TOGETHER with all right, title and interest, if any, of the party of the first part in and to any streets and roads abutting the above described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part covenants that the party of the first part has not done or suffered anything whereby the said premises have been encumbered in any way whatever, except as aforesaid.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose. The word "party" shall be construed as if it read "parties" when ever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

HSBC BANK USA, NATIONAL ASSOCIATION

By: _____

Michael L. Gembecki
First Vice President

Standard N.Y.B.T.U. Form 8002 - Bargain and Sale Deed, with Covenant against Grantor's Acts – Uniform Acknowledgment
Form 3290

DESCRIPTION - SCHEDULE A
(AMENDED: January 21, 2005)

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, bounded and described as follows:

BEGINNING at the corner formed by the intersection of the easterly side of Ashland Place and the northerly side of Hanson Place;

RUNNING THENCE easterly along the northerly side of Hanson Place, 99 feet to a point on the northerly side of Hanson Place distant 100 feet 2¾ inches westerly from the corner formed by the intersection of the northerly side of Hanson Place and the westerly side of St. Felix Street;

THENCE northerly parallel with the westerly side of St. Felix Street, 150 feet;

THENCE easterly at right angles to the last mentioned course and parallel with the northerly side of Hanson Place, 3 feet 1½ inches;

THENCE northerly at right angles to the last mentioned course and parallel with the westerly side of St. Felix Street, 15 feet;

THENCE easterly at right angles to the last mentioned course and parallel with the northerly side of Hanson Place, 97 feet 1¼ inches to a point on the westerly side of St. Felix Street distant 165 feet northerly from the corner formed by the intersection of the northerly side of Hanson Place and the westerly side of St. Felix Street;

THENCE northerly along the westerly side of St. Felix Street, 84 feet;

THENCE westerly parallel with the northerly side of Hanson Place, 97 feet 1¼ inches;

THENCE northerly parallel with the westerly side of St. Felix Street, 1 foot;

THENCE westerly parallel with the northerly side of Hanson Place, 91 feet 8 inches to the easterly side of Ashland Place; and

THENCE southerly along the easterly side of Ashland Place, 250 feet 2⅝ inches to the point or place of BEGINNING.

TOGETHER WITH the rights and benefits under that certain Boundary Line Agreement by and between the Williamsburgh Savings Bank and The Central M.E. Church of Brooklyn dated October 7, 1929, recorded in Liber 5077, cp 386, if any.

BEING KNOWN AND DESIGNATED as Lot: 1 in Block: 2111 on the tax map of the City of New York.

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE IN NEW YORK STATE

State of New York, County of NEW YORK ss:

On the 10 day of May in the year 2005 before me, the undersigned, personally appeared Michael L. Gembecki personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Josephine G. Cimino

(signature and office of individual taking acknowledgment)

JOSEPHINE G. CIMINO
Notary Public, State of New York
No. 01CI6119638
Qualified in King County
Commission Expires December 6, 2008

State of New York, County of ss:

On the day of in the year before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

(signature and office of individual taking acknowledgment)

TO BE USED ONLY WHEN THE ACKNOWLEDGMENT IS MADE OUTSIDE NEW YORK STATE

State (or District of Columbia, Territory, or Foreign Country) of ss:

On the day of in the year before me, the undersigned, personally appeared

personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before the undersigned in the

_____ in _____.
(insert the City or other political subdivision) (and insert the State or Country or other place the acknowledgment was taken)

(signature and office of individual taking acknowledgment)

DISTRICT
SECTION 7
BLOCK 2111
LOT 1
COUNTY OR TOWN Kings County
STREET ADDRESS One Hanson Pl, Bklyn, NY

BARGAIN AND SALE DEED
WITH COVENANT AGAINST GRANTOR'S ACTS

Title No. _____

HSBC BANK USA, NATIONAL ASSOCIATION

TO

CJUF II HANSON LLC

Recorded at Request of
First American Title Insurance Company of New York

RETURN BY MAIL TO:

JOYCE LAW, ESQ.
Cravath, Swaine & Moore LLP
825 Eighth Avenue
New York, NY 10019

STANDARD FORM OF NEW YORK BOARD OF TITLE UNDERWRITERS
Distributed by
First American Title Insurance Company of New York
633 THIRD AVENUE
NEW YORK, NY 10017
212-922-977 • 800-437-1234

RESERVE THIS SPACE FOR USE OF RECORDING OFFICE

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2005051700981001001S1A6C

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2005051700981001 Document Date: 05-16-2005 Preparation Date: 05-17-2005
Document Type: DEED

ASSOCIATED TAX FORM ID: 2005041900842

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

REMARKS:
DEED

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded ___ / ___ / ___ (Month Day Year)

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location: 1 (STREET NUMBER) HANSON PLACE (STREET NAME) BROOKLYN (BOROUGH) 11217 (ZIP CODE)

2. Buyer Name: CJUF II HANSON LLC (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (LAST NAME / COMPANY) ____ (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) ____ (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (STREET NUMBER AND STREET NAME) ____ (CITY OR TOWN) ____ (STATE) ____ (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

5. Deed Property Size: ____ (FRONT FEET) X ____ (DEPTH) OR ____ (ACRES)

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

8. Seller Name: HSBC BANK USA, NATIONAL ASSOCIATION (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (LAST NAME / COMPANY) ____ (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A ☐ One Family Residential
B ☐ 2 or 3 Family Residential
C ☐ Residential Vacant Land
D ☐ Non-Residential Vacant Land
E ☑ Commercial
F ☐ Apartment
G ☐ Entertainment / Amusement
H ☐ Community Service
I ☐ Industrial
J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 12 / 30 / 2004 (Month Day Year)

11. Date of Sale / Transfer: 5 / 16 / 2005 (Month Day Year)

12. Full Sale Price $ 7,075,000.00

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale ____

14. Check one or more of these conditions as applicable to transfer:

A ☐ Sale Between Relatives or Former Relatives
B ☐ Sale Between Related Companies or Partners in Business
C ☐ One of the Buyers is also a Seller
D ☑ Buyer or Seller is Government Agency or Lending Institution
E ☐ Deed Type **not** Warranty or Bargain and Sale (Specify Below)
F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
G ☐ Significant Change in Property Between Taxable Status and Sale Dates
H ☐ Sale of Business is Included in Sale Price
I ☐ Other Unusual Factors Affecting Sale Price (Specify Below)
J ☐ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: O 1

16. Total Assessed Value (of all parcels in transfer): 1,250,000.00

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 2111 1

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

____ (BUYER SIGNATURE) ____ (DATE)

____ (STREET NUMBER) ____ (STREET NAME (AFTER SALE))

____ (CITY OR TOWN) ____ (STATE) ____ (ZIP CODE)

BUYER'S ATTORNEY

____ (LAST NAME) ____ (FIRST NAME)

212 (AREA CODE) 474-1066 (TELEPHONE NUMBER)

SELLER

____ (SELLER SIGNATURE) ____ (DATE)

2005041900842201

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded ___ / ___ / ___ (Month Day Year)

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

REAL PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location: 1 (STREET NUMBER) HANSON PLACE (STREET NAME) BROOKLYN (BOROUGH) 11243 (ZIP CODE)

2. Buyer Name: CJUF II HANSON LLC (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (LAST NAME / COMPANY) ____ (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form)
____ (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (STREET NUMBER AND STREET NAME) ____ (CITY OR TOWN) ____ (STATE) ____ (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC
4B. Agricultural District Notice - N/A for NYC

Check the boxes below as they apply:
6. Ownership Type is Condominium ☐
7. New Construction on Vacant Land ☐

5. Deed Property Size: ____ (FRONT FEET) X ____ (DEPTH) OR ____ (ACRES)

8. Seller Name: HSBC BANK USA, NATIONAL ASSOCIATION (LAST NAME / COMPANY) ____ (FIRST NAME)
____ (LAST NAME / COMPANY) ____ (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A	☐	One Family Residential	C	☐	Residential Vacant Land	E	✓	Commercial	G ☐ Entertainment / Amusement	I ☐ Industrial
B	☐	2 or 3 Family Residential	D	☐	Non-Residential Vacant Land	F	☐	Apartment	H ☐ Community Service	J ☐ Public Service

SALE INFORMATION

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- B ☐ Sale Between Related Companies or Partners in Business
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- F ☐ Sale of Fractional or Less than Fee Interest (Specify Below)
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- J ☐ None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: O 1

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17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 2111 1

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

BUYER SIGNATURE ____ DATE 05/ /05

c/o The Dermot Company, Inc.
320 West 57th Street
STREET NUMBER STREET NAME (AFTER SALE)

New York (CITY OR TOWN) N Y (STATE) 10019 (ZIP CODE)

BUYER'S ATTORNEY

Law (LAST NAME) Joyce (FIRST NAME)

212 (AREA CODE) 474-1066 (TELEPHONE NUMBER)

SELLER

HSBC Bank USA, National Association
By: ____ (SELLER SIGNATURE) 05/ /05 (DATE)
Michael L. Gembecki
First Vice President

2005041900842201

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded ___ / ___ / ___ (Month Day Year)

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

REAL PROPERTY TRANSFER REPORT

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STATE BOARD OF REAL PROPERTY SERVICES

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(Rev 11/2002)

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BUYER'S ATTORNEY

Law (LAST NAME) Joyce (FIRST NAME)

212 (AREA CODE) 474-1066 (TELEPHONE NUMBER)

SELLER

HSBC Bank USA, National Association
By: ____ (SELLER SIGNATURE) 05/ /05 (DATE)
Michael L. Gembecki
First Vice President

2005041900842201

* of Dickey Realty, Ltd., as managing partner of Dermot Property Associates, as managing member of DC Hanson, LLC, as a member and operator of CJUF II Hanson LLC.

Appendix L

Resumes

Jason J. Hayes, PE, LEED AP

Senior Associate/Vice President
Environmental Engineering

14 years in the industry

Mr. Hayes has experience in New York, New Jersey, Washington D.C., California, Washington, Oregon, Alaska, and Internationally. His experience includes Environmental Protection Agency (EPA), New York State (NYS) Brownfield's application, investigation, and remediation; New York City Department of Environmental Protection (NYCDEP) and New York City Office of Environmental Remediation (OER) E-designated site application, investigation, and remediation; Phase I and II Environmental Site Investigations and Assessments; contaminated building cleanup and demolition; Underground Storage Tank (UST) permitting, removal specifications, and closure reporting; soil vapor intrusion investigation and mitigation system design (depressurization systems, etc.); development of groundwater contaminant plume migration models; environmental analysis; and oversight, design and specification generation for remediation operations with contaminants of concern to include polychlorinated biphenyls (PCBs), solvents, mercury, arsenic, petroleum products, asbestos, mold and lead.

Selected Projects

West & Watts (New York State Brownfield Cleanup Program [BCP]), New York, NY
Hudson Yards Redevelopment (Phase I ESA and Phase II ESI), New York, NY
Smith Street (Remedial Investigation and Report), Brooklyn, NY
Gateway Center II Retail (Phase I ESA and Phase II ESI), Brooklyn, NY
261 Hudson Street (Phase I ESA, Phase II ESI, BCP, and RAWP), New York, NY
28-29 High Line (Phase I ESA and Phase II ESI), New York, NY
Riverside Center, Building Two (BCP, Phase I ESA and Phase II ESI), New York, NY
New York Police Academy, (Sub-Slab Depressurization and Vapor Barrier System), College Point, NY
Gateway at Bronx Terminal Market (BCP, RIWP, RAWP, EIS), Bronx, NY
Jacob Javits Convention Center (Phase I ESA and Phase II ESI), New York, NY
Yankee Stadium Development Waterfront Park (NYSDEC Spill Sites), Bronx, NY
Bushwick Inlet Park (Phase I ESA, Approvals for NYC E-Designation), Brooklyn, NY
Silvercup West Residential (BCP, RIWP, RIR, RAWP, and RAA), Long Island City, NY
29 Flatbush Residential Tower (Groundwater Studies, RIR and RAWP), Brooklyn, NY
Gowanus Village I (BCP, RIWP and RIR), Brooklyn, NY

Education

M.S., Environmental Engineering
Columbia University

B.Sc., Chemistry, Environmental Toxicology
Humboldt State University

Business Administration (minor)
Humboldt State University

Professional Registration

Professional Engineer (PE) in NY

LEED Accredited Professional (LEED AP)

OSHA 40-Hour HAZWOPER

OSHA HAZWOPER Site Supervisor

Affiliations

US Green Building Council, NYC Chapter (USGBC)

Urban Land Institute (ULI)

NAIOP

National Brownfield Partnership

LANGAN

Sullivan Street Hotel (Site Characterization Study and Owner Representation), New York, NY
Riker's Island Co-Generation Plant (Soil and Soil Vapor Quality Investigations), Bronx, NY
The Shops at Atlas Park (Sub-Slab Depressurization and Vapor Barrier Design), Glendale, NY
Memorial Sloan-Kettering Cancer Center (Subsurface and Soil Vapor Intrusion Investigations), New York, NY
Element West 59th Street (Oversight and Monitoring of Sub-Slab Depressurization and Vapor Barrier Systems), New York, NY
Teterboro Airport (Delineation and Remedial Oversight of Petroleum-Contaminated Soils), Teterboro, NJ
Proposed New York JETS Stadium (Phase I ESA), New York, NY
Former Con Edison Manufactured Gas Plant Sites (Research Reports), New York, NY
7 World Trade Center (Endpoint Sampling and Final Closure Report), New York, NY
Peter Cooper Village, Oversite of Subsurface Investigations, New York, NY

Selected Publications, Reports, and Presentations

NYC Mayor's Office of Environmental Remediation – Big Apple Brownfield Workshop – Presented on Soil Vapor Intrusion Remedies (e.g., SSD Systems, Vapor Barriers, Modified HVAC)

New York City Brownfield Partnership – Presented on environmental considerations and complications of the Hudson yards Development

Joseph Good, PE, LEED AP

Project Engineer
Environmental Engineering

5 years in the industry

Mr. Good is an engineer with international experience working on environmental projects. He has conducted environmental research on water treatment technology designed to remedy nutrient leaching from agricultural fields and to remove metals from urban stormwater. His consulting experience includes New York State Brownfield investigations and remediation, New York City Department of Environmental Protection (NYCDEP) E-designated site application, investigation, and remediations; Phase I and II Environmental Site Assessments; remedial engineering and system design; Underground Storage Tank (UST) permitting, removal specifications, and closure reporting; soil vapor intrusion investigation. His field experience includes: subsurface investigations; groundwater, soil, and air sampling programs; monitoring well installations; driller supervisions; subcontractor oversights; and waste characterizations.

Selected Projects

55 Hudson Yards, New York, NY
State University of New York (SUNY) Downstate Medical Center, Brooklyn, NY
504-520 West 34th Street, New York, NY
19 West 20th Street, New York, NY
New York Aquarium Shark Tank and Animal Care Facility, Brooklyn, NY
28-29 High Line, New York, NY
Hunters Point Library, Queens, NY
627-641 Smith Street, Brooklyn, NY
Silvercup West, Queens, NY
Gateway at Bronx Terminal Market, Bronx, NY
Bronx Terminal Market Waterfront Park Development (Yankee Stadium Development), Bronx, NY
Bushwick Inlet Park, Brooklyn, NY
Abraham Joshua Heschel School, New York, NY
The Shops at Atlas Park, Glendale, NY
New Meadowlands Stadium Redevelopment, East Rutherford, NJ

Selected Publications, Reports, and Presentations

Good, J.F., O'Sullivan, A.D., Wicke, D., and Cochrane, T.A, (2013). pH Buffering in Stormwater Infiltration Systems – Sustainable Contaminant Removal with Waste Mussel Shells. DOI: 10.1007/s11270-014-1885-1

Education

M.E., Civil and
Natural Resource Engineering
University of Canterbury

B.S., Civil Engineering
University of Illinois

Professional Registration

Professional Engineer (PE): IL

LEED Accredited Professional (LEED AP)

40 hr HAZWOPER

10 hr OSHA (Construction)

Affiliations

American Chemical Society (ACS)

United States Green Building Council (USGBC)

American Society of Civil Engineers (ASCE)

Good, J.F., O'Sullivan, A.D., Wicke, D., and Cochrane, T.A, (2012). Contaminant Removal and Hydraulic Conductivity of Laboratory Rain Garden Systems for Stormwater Treatment. Water Science and Technology. DOI: 10.2166/wst.2012.135. 65(12):2154-2161

Good, J.F. (2011) Water Quality Treatment and Hydraulic Efficacy of Rain Gardens. Civil and Natural Resources Engineering, University of Canterbury, Christchurch, New Zealand. Master of Engineering in Civil Engineering.

Good, J.F., O'Sullivan, A.D., Wicke, D., and Cochrane, T.A, (2011). Appreciating Drainage Assets in New Zealand Cities: Rain Garden Treatment and Hydraulic Performance. International Water Association- Cities of the Future Conference, 22-25 May 2011, Stockholm, Sweden.

Natasha Bell, EIT

Staff Engineer
Environmental Engineering

1 year in the industry

Ms. Bell is an environmental engineer with one year of experience working on environmental projects in New York. She has conducted Phase I Environmental Site Assessments and waste characterization investigations. She has experience working with regulatory agencies, such as the New York State Department of Environmental Conservation (NYSDEC). Her field experience includes soil sampling, excavation and construction oversight, and Community Air Monitoring Program (CAMP) implementation.

Selected Projects

Brooklyn Bridge Park Pier 1, Brooklyn, NY
Greenpoint Landing, Brooklyn, NY
One Hudson Boulevard, New York, NY
419 Ninth Avenue, New York, NY
Georgetown Heating Plant, Washington DC
80-110 Flatbush Avenue, Brooklyn, NY
22-12 Jackson Avenue, Long Island City, NY
Socrates Park, Astoria, NY
823 Eleventh Avenue, New York, NY
421 Kent Avenue, Brooklyn, NY
514 West 24th Street, New York, NY
1525 Bedford Avenue, Brooklyn, NY
143 Fulton Street, New York, NY
Dyer Avenue Towers, New York, NY
29-37 41st Avenue, Long Island City, NY
42 Crosby Street, New York, NY
295 Locust Avenue, Bronx, NY
46-73 Metropolitan Avenue, Ridgewood, NY
Horace Mann School, Science Building, Bronx, NY
86 Fleet Place, Brooklyn, NY
351-357 Broadway, New York, NY
846 Sixth Avenue, New York, NY
Greenpoint Terminal Market, Brooklyn, NY
601 Washington Street, New York, NY
New York University, 383 Lafayette Street, New York, NY
50 West Street, New York, NY
HighLine 28-29, New York, NY
West 17th Street Development, New York, NY
Hudson Yards Redevelopment, Special Inspection, New York, NY

Selected Publications

Bell, N., Cooke, R., Olsen, T., David, M. and Hudson, R. 2014 (Submitted). Characterizing Effects of Temperature and Flow on the Performance of

Education

M.S., Soil and Water Resources Engineering
University of Illinois

B.S., Biosystems Engineering (Natural Resources and Environment)
Clemson University

Professional Registration

Engineer-in-Training (EIT)

40 hr HAZWOPER

10 hr OSHA (Construction)

Affiliations

American Society of Agricultural and Biological Engineers (ASABE)

American Ecological Engineering Society (AEES)

American Society of Civil Engineers (ASCE)

Denitrifying Bioreactors for Subsurface Drains. Journal of Environmental Quality.

Cooke, R. and Bell, N. 2014 (Accepted – awaiting publication). Protocol and Interactive Routine for the Design of Subsurface Bioreactors. Applied Engineering in Agriculture.

Jayakaran, A.D., Libes, S.M., Hitchcock, D.R., Bell, N.L., and Fuss, D. 2013. Flow, Organic, and Inorganic Sediment Yields from a Channelized Watershed in the South Carolina Lower Coastal Plain. Journal of the American Water Resources Association. DOI: 10.1111/jawr.12148.

SUBSURFACE INVESTIGATION REPORT

for

130 SAINT FELIX STREET
BROOKLYN, NEW YORK

Prepared For:

130 Saint Felix Street LLC
1010 Avenue of the Americas, Fourth Floor
New York, NY 10018

Prepared By:

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001

Jason Hayes, P.E., LEED^{AP}
Senior Associate/VP

June 2015
170366001

LANGAN

TABLE OF CONTENTS

1.0 INTRODUCTION **2**
2.0 BACKGROUND **2**
2.1 Site Location and Description **2**
2.2 Previous Environmental Reports **3**
2.3 Proposed Development **3**
3.0 FIELD INVESTIGATION **3**
3.1 Soil Investigation **3**
3.2 Groundwater Investigation **4**
3.3 Soil Vapor Investigation **4**
4.0 OBSERVATIONS AND RESULTS **5**
4.1 Field Observations **5**
4.2 Analytical Results **5**
5.0 CONCLUSIONS AND RECOMMENDATIONS **6**

TABLES

Table 1: Sample Collection Summary
Table 2: Summary of Detected Soil Sample Results – VOCs and SVOCs
Table 3: Summary of Detected Soil Sample Results – Herbicides, Pesticides, PCBs, and Metals
Table 4: Summary of Detected Groundwater Sample Results
Table 5: Summary of Detected Soil Vapor and Ambient Air Sample Results

FIGURES

Figure 1: Site Location Map
Figure 2: Sample Location Map

APPENDICES

Appendix A: Boring Logs
Appendix B: Monitoring Well Construction and Groundwater Sampling Log
Appendix C: Soil Vapor Sample Logs
Appendix D: Laboratory Analytical Reports

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) prepared this Subsurface Investigation Report (SIR) for the proposed development at 130 St. Felix Street in Brooklyn, New York (the "site"). This SIR was prepared for 130 Saint Felix Street LLC and provides a summary of subsurface soil, groundwater, and soil vapor conditions to support the due diligence process associated with a potential transaction of the site.

Field activities were completed on May 30, 2015 including 1) installation of 5 soil borings and collection of six soil samples, 2) installation of one groundwater monitoring well and collection of two groundwater samples, and 3) collection of three soil vapor samples and one ambient air sample. The following sections summarize field methodologies, findings, and our conclusions and recommendations as they relate to this investigation.

2.0 BACKGROUND

2.1 Site Location and Description

The 12,500-square-foot site is located at 130 Saint Felix Street in Brooklyn, New York and identified as Kings County Tax Block 2111, Lot 40. The site is on an L-shaped city lot bound by two multiple-story Brooklyn Academy of Music buildings to the north, Saint Felix Street followed by multiple-story residential buildings to the east, a multiple-story church to the south, and Ashland Place followed by an active construction site to the west. Surface grades slope slightly from east to west, going from elevation (el) ±47 to feet ±43 feet Borough President of Brooklyn Datum (BPBD)[1] , respectively. A site location map is provided as Figure 1.

New York City Transit (NYCT) active subway tunnels are located beneath Lafayette Avenue to the north, Saint Felix Street to the east, and Ashland Place, Fourth Avenue, and Flatbush Avenue to the west and south of the site.

[1] Elevations are referenced with respect to the Borough President of Brooklyn datum, which is 2.547 feet above USGS NGVD datum (Mean Sea Level at Sandy Hook, NJ 1929).

2.2 Previous Environmental Report

A Draft Phase I Environmental Site Assessment Report, dated May 2015, was prepared by Langan in accordance with ASTM E1527-13. Findings of the Draft Phase I ESA are summarized below.

The Draft Phase I identified several Recognized Environmental Conditions (REC) including onsite uses and adjacent property uses, summarized below:

- The site was used as a parking lot as early 1950 and may have contained underground storage tanks (UST), which could have impacted soil, groundwater and/or soil vapor at the site.
- Surrounding property uses include manufacturing, filling stations, and several dry cleaners within 900 feet of the site and may have impacted groundwater and/or soil vapor at the site.
- A No. 2 fuel oil release of unknown quantity was reported to the New York State Department of Environmental Conservation (NYSDEC) on May 18, 2004, citing impacted soil at 4 to 40 feet below grade surface (bgs) and observed free-phase product on groundwater. A delineation work plan and exposure assessment was submitted to the NYSDEC in November 2013, and after review, the NYSDEC closed the spill on April 15, 2015.

2.3 Proposed Development

The proposed site development includes construction of a new multiple-story building. The proposed construction will likely require soil/fill excavation to accommodate a cellar level and foundation components. Building plans are in the conceptual design phase and will influence the type (i.e. fill, native) and quantity of material being excavated. Based on the depth to groundwater, it is unlikely dewatering will be required during construction.

3.0 FIELD INVESTIGATION

Langan retained AARCO Environmental Services Corporation (a licensed driller in Lindenhurst, New York) on May 30, 2015 to execute the investigation, which included; 1) the installation of five soil borings and collection of six soil samples, 2) installation of one permanent groundwater monitoring well and collection of two groundwater samples, and 3) collection of three soil vapor and one ambient air samples. All activities were observed and documented by a Langan engineer. Soil, groundwater, and soil vapor sample locations are shown on Figure 2. A sample collection summary is provided as Table 1.

3.1 Soil Investigation

Five soil borings (EB07, EB09, EB10, EB12, and EB13) were completed using a Geoprobe® 7822DT direct-push drill rig to about16 feet bgs (shown on Figure 2). Soil samples were collected continuously into 4-foot long Macro-Core® sample barrels with dedicated acetate liners. Samples recovered from each boring were visually classified for soil type, grain size and texture. Soil samples were inspected for visual and olfactory evidence of contamination and screened for volatile organic compounds (VOC) with a multiRAE 4-gas meter equipped with a

10.6 electron volt (eV) lamp. Field observations were documented in boring logs included in Appendix A.

A total of six samples and one duplicate sample were collected in to laboratory-supplied containers, placed in ice-chilled coolers, and transported by a laboratory courier, under chain-of-custody protocol to Alpha Analytical, a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory in Westborough, Massachusetts. Soil samples were analyzed for NYSDEC Full Part 375-list parameters. Following sample collection, borings were backfilled with soil cuttings and clean silica sand and the asphalt surface restored to its original state.

3.2 Groundwater Investigation

One monitoring well (MW11) was installed using a truck-mounted drill rig, equipped with 4-inch diameter augers, to about 60 feet bgs. Soil cuttings generated from the initial drilling were containerized in DOT-approved 55-gallon drums until a review of analytical data could be performed prior to disposal.

The monitoring well was constructed of 2-inch diameter Schedule 40 polyvinyl chloride (PVC) with 20 feet of 0.02-inch slotted screen and 40 feet of solid riser. The well screen was set across the water table to monitor for presence or potential presence of free-phase product. The annulus around the well was filled with Morie No. 2 silica filter sand to about 2 feet above the screen. About 1 foot of a hydrated bentonite seal was placed above the filter sand. A cement grout was installed above the bentonite seal by inserting a tremie pipe into the annulus and pumping grout up to surface grade. The well was finished with a flush-mount, bolt-down manhole set in a concrete collar. A well construction log is included in Appendix B.

Prior to sampling, groundwater level was measured using a Solinst® oil/water interface probe. The well was then purged in accordance with Environmental Protection Agency (EPA) low-flow sampling techniques to obtain a representative groundwater sample. During purging, groundwater field parameters were measured using a Horiba U-52 multi-parameter meter, at 5 minute intervals, until turbidity was less than or equal to 50 Nephelometric Turbidity Units (NTU) or field parameters stabilized to within 5 percent of each other. After purging was complete, a submersible pump with dedicated polyethylene tubing was used to collect groundwater samples directly from the pump discharge line into laboratory supplied containers. A copy of the groundwater sample log is included in Appendix B.

One groundwater sample and one duplicate sample was collected from MW11 and analyzed for target compound list (TCL) volatile organic compounds (VOC), TCL-semivolatile organic compounds (SVOC), total and dissolved target analyte list (TAL)-metals, and polychlorinated biphenyls (PCB).

3.3 Soil Vapor Investigation

Three soil vapor points (SV01 to SV03) were installed using the Geoprobe® 7822DT by advancing a 2-inch diameter Macro-Core® to about 2 feet bgs. A stainless steel screen was installed at the 2-foot depth and connected to a ¼-inch diameter polyethylene tubing, which extended up to the surface. The holes were then backfilled with clean silica sand to about 6 inches above the stainless steel screen. A hydrated bentonite seal was placed above the sand filter and up to surface grade.

Prior to, and at the conclusion of sampling, Langan performed a tracer gas test using helium gas for each sample. The helium trace gas test is a QA/QC measure to confirm the integrity of the seal by evaluating whether outdoor air intrusion will impact the soil vapor sample. After completing the helium gas tracer test, a total volume of about 3 times that of the tubing and

screen was purged using a multiRAE multi-gas meter calibrated to a flow rate of 0.2 liters per minute. The purged volume was also monitored for VOCs. After purging, a 2.7-liter Summa canister under vacuum pressure with a flow controller (laboratory-preset to 0.18 liters per minute) was connected to the polyethylene tubing. The sample was collected over a period of about 120 minutes or when the canister vacuum dropped below 5 inches of mercury. Soil vapor sample logs are included in Appendix C.

In addition, one ambient air sample (AMB_053015) was collected from the north-central area of the site (shown on Figure 2) and raised to an elevation that simulates average breathing height. The ambient air sample was collected into a 6-liter Summa canister over a period of about 4 hours. The soil vapor and ambient air samples were collected in conformance with NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006, and analyzed for VOCs via EPA method TO-15.

4.0 OBSERVATIONS AND RESULTS

4.1 Field Observations

The general soil profile consists of uncontrolled historic fill overlying sand, which overlies silt, followed by sand. The fill layer consists of coarse to fine sand with varying amounts of brick, concrete, slag, coal, tile, glass, gravel, and silt. The site is capped by a 5-inch thick asphalt cover. Historic fill was encountered immediately below the asphalt cover to about 9.5 feet bgs. The historic fill was underlain by native brown medium to fine sand with varying amounts of gravel and silt. Below the sand in some areas was a thin band of fine silt. A dense, coarse to fine sand with varying amounts of coarse to fine gravel was encountered below the sit. Bedrock was not encountered. Water, where encountered, was observed perched above the silt layer. Depth to water is about 42 feet bgs (±el 4 feet BPBD).

4.2 Analytical Results

<u>Soil</u>

The five soil samples and one duplicate sample were compared to Title 6 NYCRR Part 375 Unrestricted Use and Restricted Use Restricted-Residential soil cleanup objectives (SCO). Detected soil analytical results are summarized in Tables 2 and 3. Relevant findings are as follows:

- Herbicides, pesticides, and PCBs were not detected in any samples.
- The VOCs Naphthalene and total xylenes were detected above Unrestricted Use SCOs in sample EB12_7-9.
- Several SVOCs and metals were detected at concentrations above Unrestricted Use and Restricted-Residential SCOs in one or more samples.

<u>Groundwater</u>

The groundwater sample and duplicate sample were compared to NYSDEC Technical and Operation Guidance Series (TOGS) Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for class GA (drinking water). A summary of detected groundwater concentrations is presented in Table 4. Relevant findings are as follows:

- PCBs were not detected in either sample.

- SVOCs were not detected above AWQS.
- The VOC chloroform exceeds its respective AWQS.
- Total metals concentrations of trivalent chromium, iron, and sodium were detected above AWQS.
- With the exception of sodium, dissolved (filtered) metals did not exceed their respective AWQS or GVs.

Soil Vapor

There are no standard guidance values for soil vapor. However, analytical results were compared to NYSDOH Air Guidance Values (AGV) as a reference. AGVs have been established for methylene chloride, trichloroethene, and tetrachloroethene to determine if actions would be required to mitigate exposures to soil vapor intrusion into future buildings. In addition, soil vapor samples were compared to the ambient air sample, which serves as a baseline for site-specific background concentrations. A summary of detected VOCs is presented in Table 5.

Multiple VOCs, including petroleum-related compounds (i.e., trimethylbenzenes, xylenes, and toluene, etc.) were detected at concentrations above baseline levels in sample SV02, located near the north-central area of the site. No soil vapor sample results exceeded any AGVs.

Analytical laboratory reports for all samples collected are provided in Appendix D.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the investigation, we conclude and recommend the following:

Conclusion

Fill was observed throughout the site from surface grade to about 6 to 9.5 feet bgs. The fill generally consists of coarse to fine sand with varying amounts of gravel, slag, coal, brick, concrete, and glass. Free-phase product was not observed in soil or groundwater. Groundwater was measured in monitoring well MW11 at about 42 feet bgs (±el 4 feet BPBD). Based on the depth of groundwater, it is not likely that dewatering will be required during construction.

Recommendations

- Excavated soil/fill is regulated solid waste and should be transported in accordance with applicable federal, state, and local regulations, using appropriate permits for transportation, to registered or permitted disposal facilities.
- Contingent on the final building design depth, excavation for one or more cellar levels and foundation components will address potential sources of soil and soil vapor contaminants. However, we recommend installation of a vapor barrier below the slab of the lowest cellar level and along subgrade foundation walls to prevent potentially contaminated vapor intrusion into the building that may be transported by groundwater flow below the site.

Tables

Table 1
Sample Collection Summary
130 Saint Felix Street
Brooklyn, New York
Langan Project No. 170366001

Sample Matrix	Sample ID	Collection Depth (ft)	Collection Date	Analysis
Soil	EB07_10-12	10-12	5/30/2015	Full Part 375 (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals)
	DUP01_053015	10-12		
	EB09_4.5-5.5	4.5-5.5		
	EB10_1-2	1-2		
	EB12_7-9	7-9		
	EB13_7-9	7-9		
Groundwater	MW11_053015	NA		TCL VOCs/SVOCs, TAL Metals, PCBs
	GWDUP01_053015			
Soil Vapor	SV01	2		TO-15 VOCs
	SV02			
	SV03			
Ambient Air	AMB_053015	NA		

Notes:
VOC = Volatile Organic Compound
SVOC = Semivolatile Organic Compound
PCB = Polychlorinated Biphenyl
TCL = Target Compound List
TAL = Target Analyte List

Table 2
Summary of Soil Sample Results - VOCs and SVOCs
130 Saint Felix Street
Brooklyn, New York
Langan Project No. 170366001

			DUPLICATES											
LOCATION	**Part 375 Unrestricted Use**	**Part 375 Restricted Use Restricted-Residential**	**EB07_10-12**		**DUP01_053015**		**EB09_4.5-5.5**		**EB10_1-2**		**EB12_7-9**		**EB13_7-9**	
SAMPLING DATE			**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**	
LAB SAMPLE ID			**L1511932-01**		**L1511932-06**		**L1511932-02**		**L1511932-03**		**L1511932-04**		**L1511932-05**	
SAMPLE TYPE			**Soil**		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**	
SAMPLE DEPTH (ft.)			**10-12**		**10-12**		**4.5-5.5**		**1-2**		**7-9**		**7-9**	
VOCs (mg/kg)														
1,2,4,5-Tetramethylbenzene	~	~	0.0039	U	0.0048	U	0.0063	U	0.0045	U	0.081	J	0.0048	U
1,2,4-Trimethylbenzene	3.6	52	0.0049	U	0.0061	U	0.0079	U	0.0057	U	0.54	J	0.0061	U
1,3,5-Trimethylbenzene	8.4	52	0.0049	U	0.0061	U	0.0079	U	0.0057	U	0.29	J	0.0061	U
Acetone	0.05	100	0.0056	J	0.012	U	0.016	U	0.011	U	2.4	U	0.012	U
Naphthalene	12	100	0.0049	U	0.0061	U	0.0079	U	0.0057	U	**53**		0.0061	U
o-Xylene	~	~	0.002	U	0.0024	U	0.0032	U	0.0023	U	0.24	J	0.0024	U
p-Diethylbenzene	~	~	0.0039	U	0.0048	U	0.0063	U	0.0045	U	0.2	J	0.0048	U
p/m-Xylene	~	~	0.00024	J	0.0024	U	0.0032	U	0.0023	U	0.3	J	0.0024	U
Toluene	0.7	100	0.00025	J	0.0018	U	0.0024	U	0.0017	U	0.36	U	0.0018	U
Xylenes, Total	0.26	100	0.00024	J	0.0024	U	0.0032	U	0.0023	U	**0.54**	J	0.0024	U
SVOCs (mg/kg)														
2,4-Dimethylphenol	~	~	0.21	U	0.22	U	0.93	U	0.37	U	3.8	J	0.18	U
2-Methylnaphthalene	~	~	0.26	U	0.26	U	1.2		0.44	U	50		0.093	J
3-Methylphenol/4-Methylphenol	0.33	100	0.31	U	0.32	U	1.3	U	0.53	U	**8.1**	J	0.27	U
Acenaphthene	20	100	0.17	U	0.18	U	1.9		0.3	U	**58**		0.18	
Acenaphthylene	100	100	0.17	U	0.18	U	2.2		0.3	U	42		0.15	
Anthracene	100	100	0.13	U	0.13	U	5		0.22	U	**140**		0.46	
Benzo(a)anthracene	1	1	0.13	U	0.13	U	**17**		0.22	U	**270**		0.9	
Benzo(a)pyrene	1	1	0.17	U	0.18	U	**17**		0.3	U	**260**		0.84	
Benzo(b)fluoranthene	1	1	0.13	U	0.13	U	**21**		0.22	U	**270**		1	
Benzo(ghi)perylene	100	100	0.17	U	0.18	U	12		0.3	U	**180**		0.57	
Benzo(k)fluoranthene	0.8	3.9	0.13	U	0.13	U	**7.9**		0.22	U	**190**		0.37	
Biphenyl	~	~	0.49	U	0.5	U	0.41	J	0.84	U	14	J	0.42	U
Carbazole	~	~	0.21	U	0.22	U	1.9		0.37	U	100		0.24	
Chrysene	1	3.9	0.13	U	0.13	U	**18**		0.22	U	**270**		0.91	
Dibenzo(a,h)anthracene	0.33	0.33	0.13	U	0.13	U	**3.6**		0.22	U	**60**		0.15	
Dibenzofuran	7	59	0.21	U	0.22	U	1.5		0.37	U	**71**		0.17	J
Fluoranthene	100	100	0.13	U	0.13	U	23		0.11	J	**600**		2.4	
Fluorene	30	100	0.21	U	0.22	U	1.6		0.37	U	**76**		0.2	
Indeno(1,2,3-cd)Pyrene	0.5	0.5	0.17	U	0.18	U	**10**		0.3	U	**170**		0.48	
Naphthalene	12	100	0.21	U	0.22	U	3.2		0.37	U	**110**		0.2	
Phenanthrene	100	100	0.13	U	0.13	U	16		0.22	U	**620**		2	
Phenol	0.33	100	0.21	U	0.22	U	0.93	U	0.37	U	**3.9**	J	0.18	U
Pyrene	100	100	0.13	U	0.13	U	23		0.096	J	**480**		2	

Notes and Qualifiers:
1. Soil Samples are compared to New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).
2. Only detected concentrations are shown.
3. Concentrations exceeding Unrestricted Use SCOs are in bold.
4. Concentrations above Restricted-Residential SCOs are highlighted and in bold.
VOC = Volatile Organic Compound
SVOC = Semivolatile Organic Compound.
mg/kg = milligram per kilogram
U = Compound not detected at the reported detection limit for the sample.
E = Concentration of compound exceeds the range of the calibration curve and/or linear range of the instrument.
J = Concentration is below the reporting limit, but above the method detection limit. Concentration is a laboratory estimated value.
~ = No Regulation exists for this compound in Part 375

Table 3
Summary of Detected Soil Sample Results - Herbicides, Pesticides, PCBs, Metals, and Chemistry
130 Saint Felix Street
Brooklyn, New York
Langan Project No. 170366001

			DUPLICATES											
LOCATION	**Part 375 Unrestricted Use**	**Part 375 Restricted Use Restricted-Residential**	**EB07_10-12**		**DUP01_053015**		**EB09_4.5-5.5**		**EB10_1-2**		**EB12_7-9**		**EB13_7-9**	
SAMPLING DATE			**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**		**5/30/2015**	
LAB SAMPLE ID			**L1511932-01**		**L1511932-06**		**L1511932-02**		**L1511932-03**		**L1511932-04**		**L1511932-05**	
SAMPLE TYPE			**Soil**		**Soil**		**Soil**		**Soil**		**Soil**		**Soil**	
SAMPLE DEPTH (ft.)			**10-12**		**10-12**		**4.5-5.5**		**1-2**		**7-9**		**7-9**	
Herbicides (mg/kg)														
Total Herbicides	~	~	ND		ND		ND		ND		ND		ND	
Pesticides (mg/kg)														
Total Peticides	~	~	ND		ND		ND		ND		ND		ND	
PCBs (mg/kg)														
Total PCBs	~	~	ND		ND		ND		ND		ND		ND	
Total Metals (mg/kg)														
Aluminum, Total	~	~	7100		9800		6200		6100		5800		7800	
Antimony, Total	~	~	5.1	U	5.1	U	2.3	J	1.6	J	1.1	J	4.2	U
Arsenic, Total	13	16	1.1		1.2		12		**16**		8.6		4.4	
Barium, Total	350	400	53		73		**860**		**370**		**720**		140	
Beryllium, Total	7.2	72	0.31	J	0.42	J	0.26	J	0.28	J	0.24	J	0.3	J
Cadmium, Total	2.5	4.3	1	U	1	U	0.95	J	0.1	J	0.93		0.85	U
Calcium, Total	~	~	1300		1700		45000		26000		22000		14000	
Chromium, Total	30	180	18		25		24		16		**32**		17	
Cobalt, Total	~	~	6.6		8.6		4.7		5.5		4.7		5.6	
Copper, Total	50	270	16		21		42		28		**64**		20	
Iron, Total	~	~	15000		20000		15000		13000		12000		14000	
Lead, Total	63	400	5.1	U	5.1	U	**2800**		**620**		**2000**		**130**	
Magnesium, Total	~	~	2400		3200		4100		2700		4600		2800	
Manganese, Total	1600	2000	370		380		390		250		260		270	
Mercury, Total	0.18	0.81	0.1	U	0.09	U	**0.9**		**0.25**		**1.7**		**0.42**	
Nickel, Total	30	310	15		16		16		13		20		13	
Potassium, Total	~	~	1300		2000		920		1300		1000		1300	
Selenium, Total	3.9	180	2	U	2	U	0.75	J	0.4	J	1.3	J	0.53	J
Silver, Total	2	180	1	U	1	U	0.72	J	0.86	U	0.21	J	0.85	U
Sodium, Total	~	~	270		450		120	J	100	J	220		160	J
Vanadium, Total	~	~	24		33		22		22		32		25	
Zinc, Total	109	10000	34		50		**1200**		**510**		**620**		**140**	
General Chemistry (mg/kg)														
Chromium, Hexavalent	1	110	0.58	J	0.53	J	0.96	J	0.31	J	0.33	J	0.3	J
Chromium, Trivalent	30	180	17	J	24	J	23	J	16	J	**32**	J	17	J
Cyanide, Total	27	27	1.2	U	1.3	U	0.62	J	1.1	U	0.75	J	1	U

Notes and Qualifiers:
1. Soil Samples are compared to New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCO).
2. Only detected concentrations are shown.
3. Concentrations exceeding Unrestricted Use SCOs are in bold.
4. Concentrations above Restricted-Residential SCOs are highlighted and in bold.
VOC = Volatile Organic Compound
SVOC = Semivolatile Organic Compound.
PCB = Polychlorinated Biphenyl
mg/kg = milligram per kilogram
U = Compound not detected at the reported detection limit for the sample.
E = Concentration of compound exceeds the range of the calibration curve and/or linear range of the instrument.
J = Concentration is below the reporting limit, but above the method detection limit. Concentration is a laboratory estimated value.
ND = Not Detected
~ = No Regulation exists for this compound in Part 375

Table 4
Summary of Detected Groundwater Sample Results
130 Saint Felix Street
Brooklyn, New York
Langan Project No. 170366001

		DUPLICATES			
LOCATION	**NYSDEC TOGS AWQS - Class GA**	**MW11_053015**		**GWDUP01_053015**	
SAMPLING DATE		**5/30/2015**		**5/30/2015**	
LAB SAMPLE ID		**L1511932-07**		**L1511932-08**	
SAMPLE TYPE		**Groundwater**		**Groundwater**	
VOCs (µg/L)					
Chloroform	7	**15**		**15**	
Tetrachloroethene	5	1.2		1.3	
Trichloroethene	5	3.4		3.4	
SVOCs (µg/L)					
Fluoranthene	50	0.05	J	0.04	J
Phenanthrene	50	0.1	J	0.1	J
PCBs (µg/L)					
Total PCBs	5	ND		ND	
Metals, Total (µg/L)					
Aluminum, Total	~	1020		952	
Antimony, Total	3	1.5	J	0.8	J
Arsenic, Total	25	1		1	
Barium, Total	1000	125.8		114.3	
Cadmium, Total	5	0.1	J	0.2	U
Calcium, Total	~	67000		53100	
Chromium, Total	50	**62.7**		41.1	
Cobalt, Total	~	2.1		1.4	
Copper, Total	200	7.3		6.1	
Iron, Total	300	**3090**		**2420**	
Lead, Total	25	2.2		1.7	
Magnesium, Total	35000	29300		24300	
Manganese, Total	300	160.6		130	
Nickel, Total	100	39.2		23.6	
Potassium, Total	~	5040		4500	
Selenium, Total	10	1	J	1	J
Silver, Total	50	0.1	J	0.2	J
Sodium, Total	20000	**51600**		**46600**	
Vanadium, Total	~	3.3	J	2.3	J
Zinc, Total	2000	123.8		143.6	
Metals, Dissolved (µg/L)					
Aluminum, Dissolved	~	42		22	
Antimony, Dissolved	3	1.6	J	0.9	J
Arsenic, Dissolved	25	0.5	J	0.4	J
Barium, Dissolved	1000	104.2		101.9	
Calcium, Dissolved	~	69300		65900	
Chromium, Dissolved	50	4.1		1.7	
Cobalt, Dissolved	~	0.4	J	0.3	J
Copper, Dissolved	200	1.7		5.9	
Iron, Dissolved	300	58		37	J
Lead, Dissolved	25	1	U	0.1	J
Magnesium, Dissolved	35000	26200		23800	
Manganese, Dissolved	300	66.9		60.4	
Nickel, Dissolved	100	7.5		4.2	
Potassium, Dissolved	~	4490		4240	
Silver, Dissolved	50	0.2	J	0.4	U
Sodium, Dissolved	20000	**62800**		**54200**	
Zinc, Dissolved	2000	7.9	J	5.8	J

Notes and Qualifiers:
1. Groundwater Samples are compared to New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for Class GA (drinking water).
2. Only detected concentrations are shown.
3. Concentrations above AWQS Class GA are highlighted and in bold.
VOC = Volatile Organic Compound
SVOC = Semivolatile Organic Compound
PCB = Polychlorinated Biphenyl
µg/L = microgram per liter
U = Compound not detected at the reported detection limit for the sample.
J = Concentration is below the reporting limit, but above the method detection limit. Concentration is a laboratory estimated value.
ND = Not Detected
~ = No standard or guidance value exists for this compound in TOGS AWQS Class GA.

Table 5
Summary of Detected Soil Vapor and Ambient Air Sample Results
130 Saint Felix Street
Brooklyn, NY
170366001

LOCATION SAMPLING DATE LAB SAMPLE ID SAMPLE TYPE	NYSDOH AGVs	AMB_053015 5/30/2015 L1511934-04 Ambient Air		SV01 5/30/2015 L1511934-01 Soil Vapor		SV02 5/30/2015 L1511934-02 Soil Vapor		SV03 5/30/2015 L1511934-03 Soil Vapor	
VOCs, TO-15 (µg/m^3)									
1,1,1-Trichloroethane	~	1.09	U	2.73	U	3.64	U	1.3	
1,2,4-Trimethylbenzene	~	1.36		**86.5**		**80.1**		**64.4**	
1,3,5-Trimethylbenzene	~	0.983	U	24		23.6		16	
1,3-Butadiene	~	0.442	U	1.57		2.39		0.442	U
1,3-Dichlorobenzene	~	1.2	U	3.01	U	4.01	U	4.6	
2,2,4-Trimethylpentane	~	5.56		2.34	U	9.81		7.38	
2-Butanone	~	1.47	U	11.7		37.8		6.61	
4-Ethyltoluene	~	0.983	U	16		15.8		11.7	
4-Methyl-2-pentanone	~	2.05	U	5.66		15.5		2.05	U
Acetone	~	13.5		**82**		**152**		**137**	
Benzene	~	0.639	U	4.34		4.7		2.3	
Carbon disulfide	~	0.623	U	442		679		15.3	
Chloroform	~	0.977	U	2.44	U	3.26	U	1.02	
Chloromethane	~	1.31		1.03	U	1.38	U	1.18	
Cyclohexane	~	0.688	U	13.8		7.74		2.03	
Dichlorodifluoromethane	~	1.05		2.47	U	3.3	U	1.68	
Ethanol	~	12.9		**27.5**		**69.5**		**164**	
Ethylbenzene	~	0.869	U	17.2		21.1		11.9	
Heptane	~	1.05		**8.77**		**22.5**		**4.34**	
Isopropanol	~	1.98		**8.41**		**14.1**		**28.3**	
n-Hexane	~	0.835		**13.9**		**49.3**		**2.97**	
o-Xylene	~	1.06		**37.4**		**43.9**		**26.1**	
p/m-Xylene	~	2.81		**81.7**		**93**		**53**	
Styrene	~	0.852	U	38.5		35.3		24.4	
Tertiary butyl Alcohol	~	1.52	U	24.3		25.5		59.1	
Tetrachloroethene	30	1.36	U	3.39	U	7.87		3.04	
Tetrahydrofuran	~	1.47	U	3.69	U	20.2		1.77	
Toluene	~	4.11		**43.3**		**41.8**		**27.2**	
Trichlorofluoromethane	~	2.44		2.81	U	3.75	U	1.55	

Notes and Qualifiers:
1. Air samples are compared to New York State Department of Health (NYSDOH) Air Guidance Values and compounds only detected in Ambient Air sample AMB_053015.
2. Only detected compounds are shown.
3. Concentrations of soil vapor above detected ambient air results are in bold.
4. VOC = Volatile Organic Compound
5. µg/m^3 = microgram per cubic meter

U = Compound not detected at the reported detection limit for the sample.

Figures

SOURCE: BASE MAP IS TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHIC MAPS FOR BROOKLYN AND JERSEY CITY QUADRANGLES.

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21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com

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Project	Figure Title	Project No.	Figure No.
130 SAINT FELIX STREET BLOCK No. 2111, LOT No. 40 BROOKLYN KINGS NEW YORK	SITE LOCATION MAP	170366001	1
		Date 6/1/2015	
		Scale 1"=1500'	
		Drawn By AT / Checked By JH	
		Submission Date –	Sheet 1 of 2

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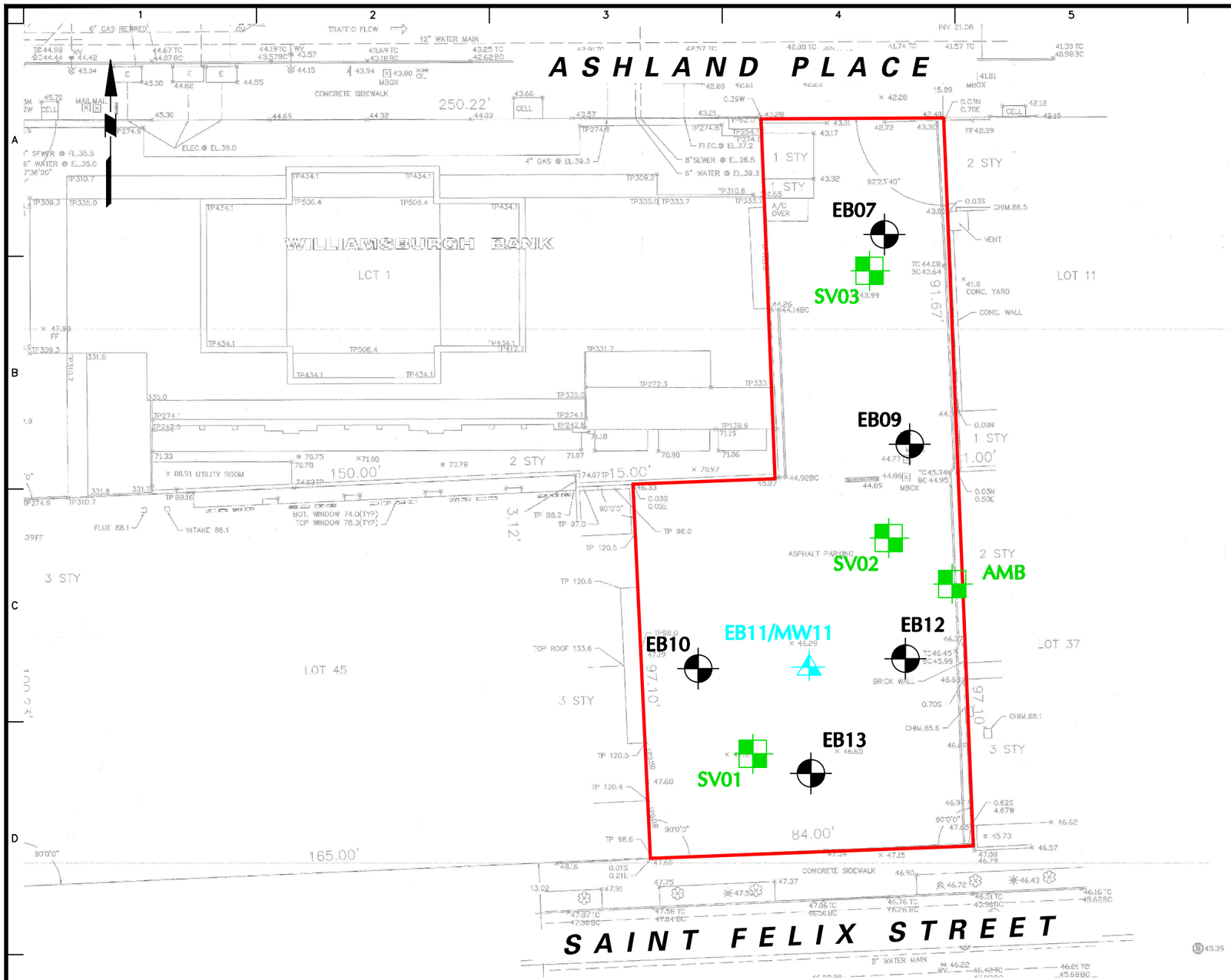
Filename: \\langan.com\data\NY\data0\170366001\Cadd Data - 170366001\SheetFiles\Subsurface Investigation\Figure 1 - Site Location Map.dwg Date: 6/4/2015 Time: 13:15 User: atashji Style Table: Langan.stb Layout: Figure 1 - SLM



LEGEND:

- SITE BOUNDARY
- EB07 — SOIL BORING LOCATION
- EB11/MW11 — BORING/MONITORING WELL LOCATION
- SV01 — SOIL VAPOR SAMPLE LOCATION
- AMB — AMBIENT AIR SAMPLE LOCATION

GENERAL NOTES:

1. BASE MAP TAKEN FROM ARCHITECTURAL SURVEY, PREPARED BY TRUE NORTH SURVEYORS, INC., DATED JULY 2005.
2. ALL LOCATIONS ARE APPROXIMATE.

30 0 15 30
SCALE IN FEET

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21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
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Project
130 SAINT FELIX STREET
BLOCK No. 2111, LOT No. 40
BROOKLYN
KINGS NEW YORK

Figure Title
SAMPLE LOCATION MAP

Project No. 170366001	Figure No. 2
Date 6/1/2015	
Scale 1"=30'	
Drawn By AT / Checked By JH	
Submission Date –	Sheet 2 of 2

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Filename: \\langan.com\data\NY\data0\170366001\Cadd Data - 170366001\SheetFiles\Subsurface Investigation\Figure 2 - Sample Location Map.dwg Date: 6/4/2015 Time: 13:17 User: atashji Style Table: Langan.stb Layout: Figure 2

Appendix A

Boring Logs

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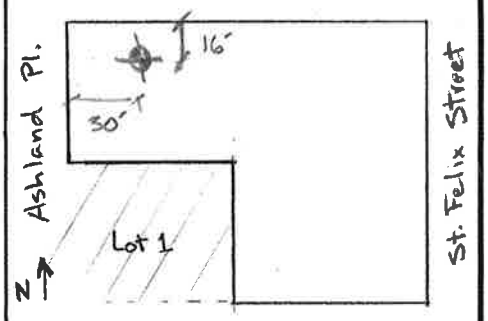
LOG OF BORING EB07 **SHEET** 1 **OF** 2

PROJECT: 130 St. Felix Street	PROJECT NO.: 170366001
LOCATION: Brooklyn, New York	ELEVATION AND DATUM:
DRILLING AGENCY: AARCO	DATE STARTED: 5/30/2015 — DATE FINISHED: 5/30/2015
DRILLING EQUIPMENT: Geoprobe 7822	COMPLETION DEPTH: 16' — ROCK DEPTH: NA
SIZE AND TYPE OF BIT: NA	NO. SAMPLES: DIST. 2, UNDIST. NA, CORE NA
CASING: NA	WATER LEVEL: FIRST –, COMPL. NA, 24 HR. NA
CASING HAMMER: WEIGHT NA, DROP NA	FOREMAN: Daybi Pacheco
SAMPLER: 2-in I.D. Macrocore	INSPECTOR: A. Tashji
SAMPLER HAMMER: Push, WEIGHT NA, DROP NA	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 in.	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
FILL	0-3" ASPHALT 3-12" DK grey c-f SAND, so. gravel, tr. mica (dry) [FILL] 12-34" Lt brn c-f SAND, so. gravel, tr. silt, tr. brick, tr. slag. (dry) [FILL]	1, 2, 3, 4	M-1	Macrocore	34/48	0.0, 0.0, 0.0		
FILL	0-9" DK to Lt brn c-f SAND, so. gravel, so. tile, mortar, tr. brick (dry) [FILL] 9-42" Brn f. dense SAND, tr. mica, tr. silt (dry) [FILL]	5, 6, 7, 8	M-2	Macrocore	42/48	0.0, 0.0, 0.0, 0.0		
FILL / SAND	0-8" DK grey to brn c-f SAND, so. gravel, tr. slag, tile, mortar, silt, mica (dry) [FILL] 8-42 Brn fine SAND, so. silt tr. mica (moist)	9, 10, 11, 12	M-3	Macrocore	48/48	0.0, 0.0, 0.0		Collect EB07_10-12 at 14:40 Collect DUP01_053015
SAND	0-16" Brn fine SAND, so gravel, brick, (dry) 16-29 Reddish brown dense c-f SAND, so. gravel, tr. mica, (dry)	13, 14	M-4	Mc	29/48	0.0, 0.0		

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JOB NO. 170366001
DATE 5/30/2015

LOG OF BORING NO. EB07

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BLOWS	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		15	-	-	-	0.0		
		16						
	E.O.B. @ 16' bgs							

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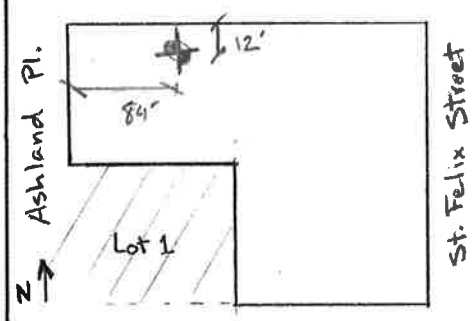
LOG OF BORING EB09 **SHEET** 1 **OF** 2

PROJECT: 130 St. Felix Street		PROJECT NO.: 170366001	
LOCATION: Brooklyn, New York		ELEVATION AND DATUM:	
DRILLING AGENCY: AARCO		DATE STARTED: 5/30/2015	DATE FINISHED: 5/30/2015
DRILLING EQUIPMENT: Geoprobe 7822		COMPLETION DEPTH: 16'	ROCK DEPTH: NA
SIZE AND TYPE OF BIT: NA		NO. SAMPLES: DIST. 1 / UNDIST. NA	CORE: NA
CASING: NA		WATER LEVEL: FIRST NA / COMPL. NA	24 HR.: NA
CASING HAMMER: WEIGHT NA	DROP NA	FOREMAN: Daybi Pacheco	
SAMPLER: 2-in I.D. Macrocore		INSPECTOR: A. Tashji	
SAMPLER HAMMER: Push	WEIGHT NA / DROP NA		

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6in.	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
FILL	0-4" ASPHALT 4-10" Dk gray m-f SAND, So, gravel, So, coal ash, tr. slag (dry) [FILL] 10-23" Lt brn c-f SAND, So, gravel, trace brick, trace silt 23-27" Dark gray m-f SAND, some coal ash, trace brick, trace glass (dry) [FILL]	1 2 3 4	M-1	Macrocore	27/48	0.0 0.0 0.0 0.0		
FILL	0-4" Dark gray m-f SAND, trace brick, trace gravel, trace silt (dry) [FILL] 4-41" Brown f dense SAND, some silt, trace mica (dry) [FILL]	5 6 7 8	M-2	Macrocore	41/48	0.0 0.0 0.0 0.0		SAMPLE EB09-4.5-5.5 COLLECTED @ 13:25
FILL SILT SAND	0-8" Brown to dark gray m-f SAND, trace gravel, trace brick (dry) [FILL] 8-18" Brown f dense SAND, trace silt (dry) [FILL] 18-24" Brown SILT (moist) 24-33" Dark brown c-f dense SAND, some f gravel, trace silt (dry) 33-41" Reddish brown to white c-f SAND (dry)	9 10 11 12	M-3	Macrocore	41/48	0.0 0.0 0.0 0.0		
SAND	0-42" Red to brown c-f dense SAND, some c-f gravel, trace silt (dry)	13 14	M-4	Macrocore	42/48	0.0 0.0		

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JOB NO. 170366001
DATE 5/30/2015

LOG OF BORING NO. EB09

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BLS/FT.	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		15	"	"	"	0.0		
		16				0.0		
	E.O.B. @ 16' bgs							

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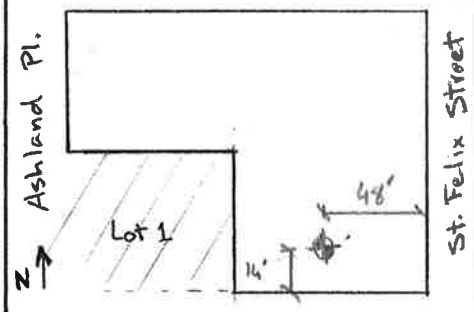
LOG OF BORING EB10 SHEET 1 OF 2

PROJECT: 130 St. Felix Street	PROJECT NO.: 170366001
LOCATION: Brooklyn, New York	ELEVATION AND DATUM:
DRILLING AGENCY: AARCO	DATE STARTED: 5/30/15 — DATE FINISHED: 5/30/15
DRILLING EQUIPMENT: Geoprobe 7822	COMPLETION DEPTH: 16' — ROCK DEPTH: NA
SIZE AND TYPE OF BIT: NA	NO. SAMPLES: DIST. 1 — UNDIST. NA — CORE NA
CASING: NA	WATER LEVEL: FIRST NA — COMPL. NA — 24 HR. NA
CASING HAMMER: WEIGHT NA — DROP NA	FOREMAN: Daybi Pacheco
SAMPLER: 2-in I.D. Macrocore	INSPECTOR: A. Tashji
SAMPLER HAMMER: Push — WEIGHT NA — DROP NA	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6in.	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
FILL	0-2" ASPHALT 2-8" DARK GRAY C-F SAND, SOME ASPHALT, SOME GRAVEL, SOME SLAG (DRY) [FILL] 8-16" BROWN TO LIGHT BROWN M-F SAND, TRACE COAL, TRACE BRICK, TRACE GRAVEL, TRACE SILT (DRY) [FILL] 16-33" BROWN F SAND, TRACE SILT, TRACE MICA, TRACE GRAVEL (DRY) [FILL]	1 2 3 4	M-1	Macrocore	33/48	0.0 0.0 0.0 0.0		 SAMPLE EB10_1-2 COLLECTED @ 10:35
FILL	0-29" BROWN F SAND, TRACE MICA (DRY) [FILL] 29-41" BROWN F SAND, SOME SILT, TRACE MICA (DRY)	5 6 7 8	M-2	Macrocore	41/48	0.0 0.0 0.0 0.0		
SAND	0-20" BROWN F SAND, SOME SILT, TRACE MICA (DRY) 20-43" BROWN F SAND, SOME SILT, TRACE MICA (MOIST-WET)	9 10 11 12	M-3	Macrocore	43/48	0.0 0.0 0.0 0.0		
SILT SAND	0-11" BROWN F SAND, SOME SILT, TRACE MICA (MOIST)	13 14	M-4	MC	38/48	0.0 0.0		

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JOB NO. 170316001
DATE 5/30/15

LOG OF BORING NO. EB10

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 in.	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
SAND	11-18" BROWN F SILT (MOIST)					0.0	
	18-38" DARK BROWN M-F SAND, SOME GRAVEL, TRACE SILT (DRY)	15				0.0	
		16				0.0	END OF BORING @ 16'

086100

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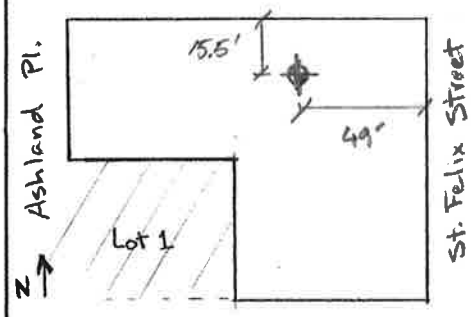
LOG OF BORING EB12 **SHEET** 1 **OF** 1

PROJECT: 130 St. Felix Street		PROJECT NO.: 170366001	
LOCATION: Brooklyn, New York		ELEVATION AND DATUM:	
DRILLING AGENCY: AARCO		DATE STARTED: 5/30/2015	DATE FINISHED: 5/30/2015
DRILLING EQUIPMENT: Geoprobe 7822		COMPLETION DEPTH: 13'	ROCK DEPTH: NA
SIZE AND TYPE OF BIT: NA		NO. SAMPLES: DIST. 1, UNDIST. NA	CORE: NA
CASING: NA		WATER LEVEL: FIRST NA	COMPL. NA, 24 HR. NA
CASING HAMMER: WEIGHT NA	DROP NA	FOREMAN: Danybi Pacheco	
SAMPLER: 2-in I.D. Macrocore		INSPECTOR: A. Tashji	
SAMPLER HAMMER: Push	WEIGHT NA, DROP NA		

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	~~PENETR. RESIST. BLOW/6"~~	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
FILL	0-5" ASPHALT 5-10" Grey CONCRETE, tr. dk grey m-f sand (dry) [FILL] 10-21" Dk grey to brown m-f SAND, so. gravel, so. ash, tr. brick (dry) [FILL]	1, 2, 3, 4	M-1	Macrocore	21/48	0.0, 0.0, 0.0		
FILL	0-14" Lt brown m-f SAND, so brick, so. concrete, so. gravel, tr. wood (dry) [FILL] 14-22" Black c-f SAND, so. coal ash (dry) [FILL]	4, 5, 6, 7, 8	M-2	Macrocore	22/48	0.0, 0.0, 0.0		- Chemical-like odor at 7 to 8 ft Collect sample EB12-7-9 @ 12:40
FILL SAND SILT SAND	0-11" Dk grey to brn m-f SAND, so. coal, so. brick, tr. concrete (dry) [FILL] 11-22" Brn fine dense SAND, tr. mica (moist) 22-32" Brn SILT, tr. fine gravel (moist) 32-40 Dk brn c-f SAND, so. c-f gravel, tr. silt (dry)	8, 9, 10, 11	M-3	Macrocore	40/48	0.0, 0.0, 0.0		
		12	M-4	MC	12/12	0.0		
	Refusal @ 13' E.O.B.	13, 14						- Macrocore bent at 13' refusal

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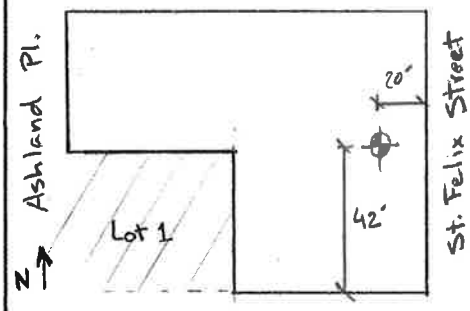
LOG OF BORING EB13 SHEET 1 OF 2

PROJECT: 130 St. Felix Street	PROJECT NO.: 170366001
LOCATION: Brooklyn, New York	ELEVATION AND DATUM:
DRILLING AGENCY: AARCO	DATE STARTED: 5/30/15 — DATE FINISHED: 5/30/15
DRILLING EQUIPMENT: Geoprobe 7822	COMPLETION DEPTH: 16' — ROCK DEPTH: NA
SIZE AND TYPE OF BIT: NA	NO. SAMPLES: DIST. 1, UNDIST. NA, CORE NA
CASING: NA	WATER LEVEL: FIRST NA, COMPL. NA, 24 HR. NA
CASING HAMMER: WEIGHT NA, DROP NA	FOREMAN: Daybi Pacheko
SAMPLER: 2-in I.D. Macrocore	INSPECTOR: A. Tashji
SAMPLER HAMMER: Push, WEIGHT NA, DROP NA	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 IN.	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
FILL	0-5" ASPHALT					0.2		
	5-18" DARK GRAY M-F SAND, SOME GRAVEL, SOME SLAG TRACE BRICK, TRACE SILT (DRY) [FILL]	1			31/48	0.1		
	18-31" DARK BROWN M-F SAND, SOME GRAVEL, TRACE BRICK, TRACE SILT (DRY) [FILL]	2				0.0		
		3				0.0		
		4				0.0		
	0-10" DARK GRAY TO BROWN M-F SAND, SOME GRAVEL, SOME BRICK, TRACE SILT (DRY) [FILL]	5			13/48	0.5		POOR RECOVERY 4-8'; REDRILL @ OFFSET ~1' NW
	10-13" BROWN C-F SAND AND BRICK (DRY) [FILL]	6						
		7						SAMPLE EB13_7-9 COLLECTED @ 12:00
		8				0.0		
	0-6" LIGHT BROWN C-F SAND, SOME GRAVEL, SOME BRICK, SOME MORTAR, TRACE COAL, TRACE SILT (DRY) [FILL]	9			48/48	0.0		
SAND	6-15" LIGHT BROWN F SAND, TRACE SILT, TRACE MICA (DRY) [FILL]	10				0.0		
	15-48" BROWN F SAND, SOME SILTY SAND, TRACE GRAVEL, TRACE MICA (DRY)	11				0.0		
		12				0.0		
	0-27" DARK BROWN M-F SAND, SOME GRAVEL, TRACE SILT (DRY)	13			48/48	0.0		
		14				0.0		



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JOB NO. 170366001
DATE 5/30/15

LOG OF BORING NO. EB13

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES NO.LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLS/6"	PID (ppm)	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
SILT	27-32" BROWN F SILT (DRY)					0.0		
SAND	32-48" DARK BROWN DENSE C-F SAND, SOME GRAVEL (DRY)	15				0.0		
		16				0.0		END OF BORING @ 16'

086100

Appendix B

Monitoring Well Construction and Groundwater Sampling Log

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WELL CONSTRUCTION SUMMARY

EB11/MW11

PROJECT 130 Saint Felix Street	**PROJECT NO.** 170366001
LOCATION Brooklyn, New York	**ELEVATION AND DATUM** ± El. 46.0 feet BPBD
DRILLING AGENCY AARCO Environmental	**DATE STARTED** 5/30/2015 **DATE FINISHED** 5/30/2015
DRILLING EQUIPMENT Truck-mounted drill rig	**DRILLER** Tom Seickel
SIZE AND TYPE OF BIT 4-inch diameter auger	**INSPECTORS** A. Tashji

METHOD OF INSTALLATION

A truck-mounted drill rig equiped with 4-inch diameter hollow-stem augers were advanced to a depth of ±60 feet bgs. Drill cuttings were collected into a 55-gallon drum. A 4-inch diameter Schedule 40 PVC well with 20 feet of 0.02-inch slotted screen and 40 feet of riser were installed. Sand was placed around the annulus of the well to 2 feet above the screen. Above the sand, 1 foot of hydrated bentonite was installed. Grout was tremie piped into the remaining annulus above the bentonite seal up to surface grade. the well was finished with a flush-mount, bolt-down manhole set in a concrete collar.

METHOD OF WELL DEVELOPMENT

A submersible pump was used to remove about 3 well volumes using EPA low-flow techniques. Purge water was pumped into a DOT-approved 55-gallon drum until the effluent was clear and the turbidity was within an EPA-acceptable range. The well was sampled immediately after purging.

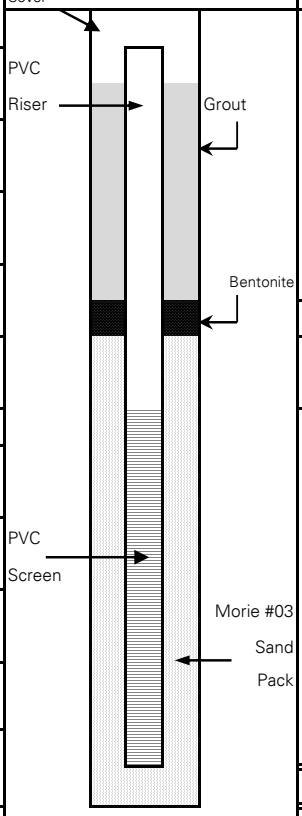
TYPE OF CASING PVC Schedule 40	**DIAMETER** 2-inch	**TYPE OF BACKFILL MATERIAL** Cement Grout
TYPE OF SCREEN PVC Schedule 40	**DIAMETER** 2-inch	**TYPE OF SEAL MATERIAL** Hydrated Bentonite
BOREHOLE DIAMETER 4-inch		**TYPE OF FILTER MATERIAL** Morie No. 2 Sand

TOP OF CASING	**ELEVATION (ft) (3)** 45.5	**DEPTH (ft)** 0.5
TOP OF SEAL	10.00	**DEPTH (ft)** 36
TOP OF FILTER	9	**DEPTH (ft)** 37
TOP OF SCREEN	7	**DEPTH (ft)** 39
BOTTOM OF WELL	-14	**DEPTH (ft)** 60
SCREEN LENGTH		**LENGTH (ft)** 20
SLOT SIZE		**SPACING (in)** 0.02

GROUNDWATER ELEVATIONS

ELEVATION	DATE	DEPTH TO WATER (ft) (3)
4.00	5/30/2015	42

WELL DETAILS	SUMMARY SOIL CLASSIFICATION (1), NOTES	DEPTH (FT) (2)
Cover	Ground Surface	0.00
		0.5
PVC Riser		0.7
Grout		
Bentonite		36.0
		37.0
		39.0
PVC Screen		
Morie #03 Sand Pack		
		59.0
		60.0
	EOB	



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GROUND WATER SAMPLE FIELD INFORMATION FORM

Site: 130 Saint Felix Street	**Well#/Location:**	EB11/MW11	**Job No.**	170366001	
Date: 5/30/2015	**Weather:**	75-80 °F, Sunny	**Sampling Personnel:**	A. Tashji	

Well Information

Sample ID	MW11_053015
Well Depth (ft)	59
Screened Interval (ft)	39-59
Casing Elevation (msl)	45.5
Casing Diameter (in)	2
Depth to Water (ft)	42.29
Water Elevation (msl)	
Casing Volume (gal)	2.7
PID/FID Reading (ppm)	0.0

Purging Information

Purging Method	Low Flow
Purging Rate (gpm)	0.15
Start Purge Time	15:28
End Purge Time	16:35
Volume Purged (gal)	6.75

Sampling Information

Sampling Method	Low Flow
Start Sampling Time	16:35
End Sampling Time	16:50
Depth Before Sampling (ft)	42.29
Number Bottles Collected	18

	Parameters							
Sample Time	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temp (°C)**	**ORP (mV)**	**Depth to Water (ft)**	**Purged Volume (gallons)**
15:35	7.45	0.792	0.0*	8.83	20.65	170	42.29	-
15:40	7.61	0.797	558	7.14	21.6	145	42.29	0.75
15:45	7.19	0.001	62.3	11.4	22.38	173	42.29	1.5
	Pump failure							
16:05	7.79	0.756	0.0*	8.19	20.75	138	42.29	2.25
16:10	7.79	0.762	0.0*	8.13	20.64	137	42.29	3
16:15	7.82	0.783	0.0*	7.01	21.05	131	42.29	3.75
16:20	7.75	0.866	0.0*	7.51	20.52	128	42.29	4.5
16:25	7.71	0.928	318	7.17	19.74	124	42.29	5.25
16:30	7.68	0.944	129	7.11	17.17	120	42.29	6
16:35	7.67	0.943	46.7	7.11	18.99	117	42.29	6.75

Notes/Remarks

Pump failure at 15:50 because battery died. Monsoon pump was connected to a car battery and pumping continued by 16:05.

0.0* = turbidity was too high for the water quality meter to read.

Sample MW11_053015 was collected at 16:35

GWDUP01_053015 was collected from MW11

Appendix C

Soil Vapor Sample Logs

LANGAN

SOIL VAPOR SAMPLING LOG SHEET

Sample Point: SV01

PROJECT: 130 St. Felix Street	**PROJECT NO.:** 170366001
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:**
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental	**INSTALLATION DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION FOREMAN: Daybi Pechecko	**SAMPLE DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION EQUIPMENT: Geoprobe® 7822DT direct-push drill rig	**TYPE OF SAMPLING DEVICE:** 2.7 Liter Summa Canister
INSPECTOR: A. Tashji	**SAMPLER:** A. Tashji
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** 75 - 80 degrees F, Sunny - Wind 15 - 25 mph

METHOD OF INSTALLATION AND PURGING:
Advance 2-inch diameter macrocore with Geoprobe to a depth of 2 feet bgs. Stainless steel implant installed at 2 feet bgs, backfilled with sand and sealed with hydrated bentonite to surface grade. About 3 well volumes were purged using a multiRAE 4-gas meter set at a flow rate of 0.2 liters per minute.

TUBING TYPE/DIAMETER: 1/4-inch polyethylene tubing	**TYPE OF MATERIAL ABOVE SEAL:** None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 6-inch length x 1/2-inch diameter	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Hydrated Bentonite
BOREHOLE DIAMETER: 2-inch O.D.	**FILTER PACK MATERIAL (Sand or Glass Beads):** Morie No. 2 Sand

PURGE VOLUME (L):	0.01	
PURGE FLOW RATE (ML/MIN):	0.2	
PID AFTER PURGE (PPM):	0.2	
HELIUM TEST IN BUCKET(%):	Before Sample: 34.8%	After Sample: 34.3%
HELIUM TEST IN TUBE (PPM):	Before Sample: 0	After Sample: 0
SAMPLE START DATE/TIME:	5/30/15 - 9:28	
SAMPLE STOP DATE/TIME:	5/30/15 - 11:30	
TOTAL SAMPLE TIME (MIN):	122	
FLOW RATE (L/MIN):	0.0178	
VOLUME OF SAMPLE (LITERS):	2.17	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	-	
CAN SERIAL NUMBER:	2042	
REGULATOR SERIAL NUMBER:	0150	
CAN START VACUUM PRESS. (" HG):	-30.42	
CAN STOP VACUUM PRESS. (" HG):	-4.89	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
SURFACE		Bentonite seal to surface grade
Top of Pack	1	
	2	

SAMPLE LOCATION SKETCH

NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Point: SV02

PROJECT: 130 St. Felix Street	**PROJECT NO.:** 170366001
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:**
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental	**INSTALLATION DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION FOREMAN: Daybi Pechecko	**SAMPLE DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION EQUIPMENT: Geoprobe® 7822DT direct-push drill rig	**TYPE OF SAMPLING DEVICE:** 2.7 Liter Summa Canister
INSPECTOR: A. Tashji	**SAMPLER:** A. Tashji
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** 75 - 80 degrees F, Sunny - Wind 15 - 25 mph

METHOD OF INSTALLATION AND PURGING:
Advance 2-inch diameter macrocore with Geoprobe to a depth of 2 feet bgs. Stainless steel implant installed at 2 feet bgs, backfilled with sand and sealed with hydrated bentonite to surface grade. About 3 well volumes were purged using a multiRAE 4-gas meter set at a flow rate of 0.2 liters per minute.

TUBING TYPE/DIAMETER: 1/4-inch polyethylene tubing	**TYPE OF MATERIAL ABOVE SEAL:** None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 6-inch length x 1/2-inch diameter	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Hydrated Bentonite
BOREHOLE DIAMETER: 2-inch O.D.	**FILTER PACK MATERIAL (Sand or Glass Beads):** Morie No. 2 Sand

PURGE VOLUME (L):	0.01	
PURGE FLOW RATE (ML/MIN):	0.2	
PID AFTER PURGE (PPM):	0.2	
HELIUM TEST IN BUCKET(%):	Before Sample: 34.1%	After Sample: 31.4%
HELIUM TEST IN TUBE (PPM):	Before Sample: 0	After Sample: 0
SAMPLE START DATE/TIME:	5/30/15 - 9:51	
SAMPLE STOP DATE/TIME:	5/30/15 - 11:51	
TOTAL SAMPLE TIME (MIN):	120	
FLOW RATE (L/MIN):	0.0179	
VOLUME OF SAMPLE (LITERS):	2.15	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	-	
CAN SERIAL NUMBER:	518	
REGULATOR SERIAL NUMBER:	0002	
CAN START VACUUM PRESS. (" HG):	-30.44	
CAN STOP VACUUM PRESS. (" HG):	-7.74	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
SURFACE		Bentonite seal to surface grade
Top of Pack	1	
	2	

SAMPLE LOCATION SKETCH

NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Point: SV03

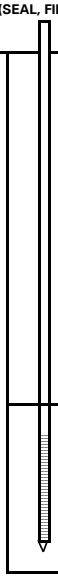
PROJECT: 130 St. Felix Street	**PROJECT NO.:** 170366001
LOCATION: Brooklyn, New York	**SURFACE ELEVATION AND DATUM:**
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental	**INSTALLATION DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION FOREMAN: Daybi Pechecko	**SAMPLE DATE STARTED:** 5/30/2015 **DATE FINISHED:** 5/30/2015
INSTALLATION EQUIPMENT: Geoprobe® 7822DT direct-push drill rig	**TYPE OF SAMPLING DEVICE:** 2.7 Liter Summa Canister
INSPECTOR: A. Tashji	**SAMPLER:** A. Tashji
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** 75 - 80 degrees F, Sunny - Wind 15 - 25 mph

METHOD OF INSTALLATION AND PURGING:
Advance 2-inch diameter macrocore with Geoprobe to a depth of 2 feet bgs. Stainless steel implant installed at 2 feet bgs, backfilled with sand and sealed with hydrated bentonite to surface grade. About 3 well volumes were purged using a multiRAE 4-gas meter set at a flow rate of 0.2 liters per minute.

TUBING TYPE/DIAMETER: 1/4-inch polyethylene tubing	**TYPE OF MATERIAL ABOVE SEAL:** None
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 6-inch length x 1/2-inch diameter	**SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.):** Hydrated Bentonite
BOREHOLE DIAMETER: 2-inch O.D.	**FILTER PACK MATERIAL (Sand or Glass Beads):** Morie No. 2 Sand

PURGE VOLUME (L):	0.01	
PURGE FLOW RATE (ML/MIN):	0.2	
PID AFTER PURGE (PPM):	0.1	
HELIUM TEST IN BUCKET(%):	Before Sample: 32.8%	After Sample: 33.3%
HELIUM TEST IN TUBE (PPM):	Before Sample: 0	After Sample: 0
SAMPLE START DATE/TIME:	5/30/15 - 12:31	
SAMPLE STOP DATE/TIME:	5/30/15 - 14:31	
TOTAL SAMPLE TIME (MIN):	120	
FLOW RATE (L/MIN):	0.018	
VOLUME OF SAMPLE (LITERS):	2.16	
PID AFTER SAMPLE (PPM):	0	
SAMPLE MOISTURE CONTENT:	-	
CAN SERIAL NUMBER:	2015	
REGULATOR SERIAL NUMBER:	0471	
CAN START VACUUM PRESS. (" HG):	-30.32	
CAN STOP VACUUM PRESS. (" HG):	-11.85	

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
SURFACE		Bentonite seal to surface grade
Top of Pack	1	
	2	



SAMPLE LOCATION SKETCH

NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

Appendix D

Laboratory Analytical Reports

LANGAN

ANALYTICAL REPORT

Lab Number:	L1511932
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Joe Good
Phone:	(212) 479-5448
Project Name:	130 ST. FELIX STREET
Project Number:	170366001
Report Date:	06/01/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

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

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1511932-01	EB07_10-12	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 14:40	05/30/15
L1511932-02	EB09_4.5-5.5	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 13:25	05/30/15
L1511932-03	EB10_1-2	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 10:35	05/30/15
L1511932-04	EB12_7-9	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 12:40	05/30/15
L1511932-05	EB13_7-9	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 12:00	05/30/15
L1511932-06	DUP01_053015	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 00:00	05/30/15
L1511932-07	MW11_053015	WATER	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 16:35	05/30/15
L1511932-08	GWDUP01_053015	WATER	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 00:00	05/30/15
L1511932-09	DRUM_053015	SOIL	130 ST. FELIX STREET, BROOKLYN NY	05/30/15 15:50	05/30/15

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932
Project Number: 170366001 **Report Date:** 06/01/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932
Project Number: 170366001 **Report Date:** 06/01/15

Case Narrative (continued)

Report Submission

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

Volatile Organics

The surrogate recovery for L1511932-01 is below the acceptance criteria for 1,2-dichloroethane-d4 (63%), due to a known matrix effect caused by the high pH of the sample (>10).

L1511932-02: The internal standard (IS) response(s) for 1,4-dichlorobenzene-d4 (34%) was below the acceptance criteria; however, re-analysis achieved similar results: 1,4-dichlorobenzene-d4 (38%). The results of both analyses are reported.

Semivolatile Organics

L1511932-03 has elevated detection limits due to the dilution required by the sample matrix.

L1511932-04: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

Metals

L1511932-01 through -06 have elevated detection limits for all elements, with the exception of mercury, due to the dilutions required by matrix interferences encountered during analysis.

The WG789474-4 MS recovery, performed on L1511932-01, is outside the acceptance criteria for mercury (126%). A post digestion spike was performed and was within acceptance criteria.

The WG789581-4 MS recoveries for aluminum (150%), iron (0%), and manganese (20%), performed on L1511932-01, do not apply because the sample concentrations are greater than four times the spike amount added.

The WG789581-4 MS recoveries, performed on L1511932-01, are outside the acceptance criteria for calcium (70%), chromium (70%), magnesium (70%), nickel (72%), thallium (66%), and zinc (72%). A post digestion

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932
Project Number: 170366001 **Report Date:** 06/01/15

Case Narrative (continued)

spike was performed and yielded unacceptable recoveries for calcium (69%), chromium (74%), magnesium (79%), nickel (71%), thallium (65%), and zinc (73%). This has been attributed to sample matrix.
The WG789724-4 MS recoveries for calcium (61%) and sodium (64%), performed on L1511932-07, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG789724-4 MS recoveries, performed on L1511932-07, are outside the acceptance criteria for iron (0%) and magnesium (13%). A post digestion spike was performed and was within acceptance criteria.
The WG789724-4 MS recovery, performed on L1511932-07, is outside the acceptance criteria for silver (67%). A post digestion spike was performed and yielded an unacceptable recovery of 72%. This has been attributed to sample matrix.
The WG789724-3 Laboratory Duplicate RPDs, performed on L1511932-07, are outside the acceptance criteria for arsenic (25%), chromium (51%), cobalt (43%), iron (29%), lead (24%), and nickel (53%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Dissolved Metals
The WG789582-1 Method Blank, associated with L1511932-07 and -08, has a concentration above the reporting limit for Silver. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.
The WG789582-4 MS recoveries for calcium (0%) and sodium (0%), performed on L1511932-07, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG789582-4 MS recovery, performed on L1511932-07, is outside the acceptance criteria for silver (58%). A post digestion spike was performed and was within acceptance criteria.

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

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 06/01/15

ORGANICS

VOLATILES

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-01	Date Collected:	05/30/15 14:40
Client ID:	EB07_10-12	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 10:20		
Analyst:	BN		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.1	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.08	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.20	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.98	0.14	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.11	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.11	1
Bromodichloromethane	ND		ug/kg	0.98	0.17	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.12	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.12	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.14	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.10	1
Benzene	ND		ug/kg	0.98	0.12	1
Toluene	0.25	J	ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.12	1
Chloromethane	ND		ug/kg	4.9	0.29	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.11	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21	1
Trichloroethene	ND		ug/kg	0.98	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.15	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01 Date Collected: 05/30/15 14:40

Client ID: EB07_10-12 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.14	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.08	1
p/m-Xylene	0.24	J	ug/kg	2.0	0.19	1
o-Xylene	ND		ug/kg	2.0	0.17	1
Xylenes, Total	0.24	J	ug/kg	2.0	0.17	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.14	1
Dibromomethane	ND		ug/kg	9.8	0.16	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.19	1
Acetone	5.6	J	ug/kg	9.8	1.0	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.27	1
Vinyl acetate	ND		ug/kg	9.8	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.8	0.16	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.27	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.22	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.20	1
n-Butylbenzene	ND		ug/kg	0.98	0.11	1
sec-Butylbenzene	ND		ug/kg	0.98	0.12	1
tert-Butylbenzene	ND		ug/kg	4.9	0.13	1
o-Chlorotoluene	ND		ug/kg	4.9	0.16	1
p-Chlorotoluene	ND		ug/kg	4.9	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.22	1
Isopropylbenzene	ND		ug/kg	0.98	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.12	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.8	0.50	1
n-Propylbenzene	ND		ug/kg	0.98	0.11	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.14	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.14	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01 Date Collected: 05/30/15 14:40

Client ID: EB07_10-12 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.14	1
1,4-Dioxane	ND		ug/kg	98	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	0.16	1
p-Ethyltoluene	ND		ug/kg	3.9	0.12	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.13	1
Ethyl ether	ND		ug/kg	4.9	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**63**	Q	70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	86		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 11:18		
Analyst:	BN		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	1.8	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.14	1
Chloroform	ND		ug/kg	2.4	0.60	1
Carbon tetrachloride	ND		ug/kg	1.6	0.34	1
1,2-Dichloropropane	ND		ug/kg	5.6	0.37	1
Dibromochloromethane	ND		ug/kg	1.6	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.49	1
Tetrachloroethene	ND		ug/kg	1.6	0.23	1
Chlorobenzene	ND		ug/kg	1.6	0.56	1
Trichlorofluoromethane	ND		ug/kg	8.1	0.63	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.18	1
Bromodichloromethane	ND		ug/kg	1.6	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.19	1
1,1-Dichloropropene	ND		ug/kg	8.1	0.23	1
Bromoform	ND		ug/kg	6.4	0.38	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.16	1
Benzene	ND		ug/kg	1.6	0.19	1
Toluene	ND		ug/kg	2.4	0.31	1
Ethylbenzene	ND		ug/kg	1.6	0.20	1
Chloromethane	ND		ug/kg	8.1	0.47	1
Bromomethane	ND		ug/kg	3.2	0.54	1
Vinyl chloride	ND		ug/kg	3.2	0.19	1
Chloroethane	ND		ug/kg	3.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.34	1
Trichloroethene	ND		ug/kg	1.6	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	8.1	0.25	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	8.1	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	8.1	0.22	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.14	1
p/m-Xylene	ND		ug/kg	3.2	0.32	1
o-Xylene	ND		ug/kg	3.2	0.28	1
Xylenes, Total	ND		ug/kg	3.2	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.23	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.23	1
Dibromomethane	ND		ug/kg	16	0.26	1
Styrene	ND		ug/kg	3.2	0.65	1
Dichlorodifluoromethane	ND		ug/kg	16	0.31	1
Acetone	ND		ug/kg	16	1.7	1
Carbon disulfide	ND		ug/kg	16	1.8	1
2-Butanone	ND		ug/kg	16	0.44	1
Vinyl acetate	ND		ug/kg	16	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.39	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.26	1
2-Hexanone	ND		ug/kg	16	1.1	1
Bromochloromethane	ND		ug/kg	8.1	0.44	1
2,2-Dichloropropane	ND		ug/kg	8.1	0.36	1
1,2-Dibromoethane	ND		ug/kg	6.4	0.28	1
1,3-Dichloropropane	ND		ug/kg	8.1	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.51	1
Bromobenzene	ND		ug/kg	8.1	0.34	1
n-Butylbenzene	ND		ug/kg	1.6	0.18	1
sec-Butylbenzene	ND		ug/kg	1.6	0.20	1
tert-Butylbenzene	ND		ug/kg	8.1	0.22	1
o-Chlorotoluene	ND		ug/kg	8.1	0.26	1
p-Chlorotoluene	ND		ug/kg	8.1	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.1	0.64	1
Hexachlorobutadiene	ND		ug/kg	8.1	0.37	1
Isopropylbenzene	ND		ug/kg	1.6	0.17	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.20	1
Naphthalene	4.3	J	ug/kg	8.1	0.22	1
Acrylonitrile	ND		ug/kg	16	0.83	1
n-Propylbenzene	ND		ug/kg	1.6	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.1	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.1	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.1	0.23	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	8.1	0.23	1
1,4-Dioxane	ND		ug/kg	160	23.	1
p-Diethylbenzene	ND		ug/kg	6.4	0.26	1
p-Ethyltoluene	ND		ug/kg	6.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.4	0.21	1
Ethyl ether	ND		ug/kg	8.1	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.1	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	104		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02 R	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 12:08		
Analyst:	BN		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	16	1.7	1
1,1-Dichloroethane	ND		ug/kg	2.4	0.14	1
Chloroform	ND		ug/kg	2.4	0.58	1
Carbon tetrachloride	ND		ug/kg	1.6	0.33	1
1,2-Dichloropropane	ND		ug/kg	5.5	0.36	1
Dibromochloromethane	ND		ug/kg	1.6	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.4	0.48	1
Tetrachloroethene	ND		ug/kg	1.6	0.22	1
Chlorobenzene	ND		ug/kg	1.6	0.55	1
Trichlorofluoromethane	ND		ug/kg	7.9	0.61	1
1,2-Dichloroethane	ND		ug/kg	1.6	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	0.17	1
Bromodichloromethane	ND		ug/kg	1.6	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	1.6	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	1.6	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	1.6	0.18	1
1,1-Dichloropropene	ND		ug/kg	7.9	0.22	1
Bromoform	ND		ug/kg	6.3	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	0.16	1
Benzene	ND		ug/kg	1.6	0.19	1
Toluene	ND		ug/kg	2.4	0.31	1
Ethylbenzene	ND		ug/kg	1.6	0.20	1
Chloromethane	ND		ug/kg	7.9	0.46	1
Bromomethane	ND		ug/kg	3.2	0.53	1
Vinyl chloride	ND		ug/kg	3.2	0.18	1
Chloroethane	ND		ug/kg	3.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.6	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	2.4	0.33	1
Trichloroethene	ND		ug/kg	1.6	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	7.9	0.24	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 R Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	7.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	7.9	0.22	1
Methyl tert butyl ether	ND		ug/kg	3.2	0.13	1
p/m-Xylene	ND		ug/kg	3.2	0.31	1
o-Xylene	ND		ug/kg	3.2	0.27	1
Xylenes, Total	ND		ug/kg	3.2	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	1.6	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.6	0.22	1
Dibromomethane	ND		ug/kg	16	0.26	1
Styrene	ND		ug/kg	3.2	0.63	1
Dichlorodifluoromethane	ND		ug/kg	16	0.30	1
Acetone	ND		ug/kg	16	1.6	1
Carbon disulfide	ND		ug/kg	16	1.7	1
2-Butanone	ND		ug/kg	16	0.43	1
Vinyl acetate	ND		ug/kg	16	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	16	0.38	1
1,2,3-Trichloropropane	ND		ug/kg	16	0.26	1
2-Hexanone	ND		ug/kg	16	1.0	1
Bromochloromethane	ND		ug/kg	7.9	0.44	1
2,2-Dichloropropane	ND		ug/kg	7.9	0.36	1
1,2-Dibromoethane	ND		ug/kg	6.3	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.9	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.6	0.50	1
Bromobenzene	ND		ug/kg	7.9	0.33	1
n-Butylbenzene	ND		ug/kg	1.6	0.18	1
sec-Butylbenzene	ND		ug/kg	1.6	0.19	1
tert-Butylbenzene	ND		ug/kg	7.9	0.21	1
o-Chlorotoluene	ND		ug/kg	7.9	0.25	1
p-Chlorotoluene	ND		ug/kg	7.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.9	0.62	1
Hexachlorobutadiene	ND		ug/kg	7.9	0.36	1
Isopropylbenzene	ND		ug/kg	1.6	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.6	0.20	1
Naphthalene	ND		ug/kg	7.9	0.22	1
Acrylonitrile	ND		ug/kg	16	0.81	1
n-Propylbenzene	ND		ug/kg	1.6	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.9	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.9	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.9	0.23	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 R Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	7.9	0.22	1
1,4-Dioxane	ND		ug/kg	160	23.	1
p-Diethylbenzene	ND		ug/kg	6.3	0.25	1
p-Ethyltoluene	ND		ug/kg	6.3	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.3	0.20	1
Ethyl ether	ND		ug/kg	7.9	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.9	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	77		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-03	Date Collected:	05/30/15 10:35
Client ID:	EB10_1-2	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 10:45		
Analyst:	BN		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.10	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.24	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.16	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.13	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.12	1
Bromodichloromethane	ND		ug/kg	1.1	0.20	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.14	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.13	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.16	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.11	1
Benzene	ND		ug/kg	1.1	0.13	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.14	1
Chloromethane	ND		ug/kg	5.7	0.33	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.13	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.24	1
Trichloroethene	ND		ug/kg	1.1	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.17	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03 Date Collected: 05/30/15 10:35

Client ID: EB10_1-2 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.16	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.10	1
p/m-Xylene	ND		ug/kg	2.3	0.22	1
o-Xylene	ND		ug/kg	2.3	0.20	1
Xylenes, Total	ND		ug/kg	2.3	0.20	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.16	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.16	1
Dibromomethane	ND		ug/kg	11	0.18	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.22	1
Acetone	ND		ug/kg	11	1.2	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.31	1
Vinyl acetate	ND		ug/kg	11	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.18	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.31	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.26	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.13	1
sec-Butylbenzene	ND		ug/kg	1.1	0.14	1
tert-Butylbenzene	ND		ug/kg	5.7	0.15	1
o-Chlorotoluene	ND		ug/kg	5.7	0.18	1
p-Chlorotoluene	ND		ug/kg	5.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.26	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.14	1
Naphthalene	ND		ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1
n-Propylbenzene	ND		ug/kg	1.1	0.12	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.16	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03 Date Collected: 05/30/15 10:35

Client ID: EB10_1-2 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.16	1
1,4-Dioxane	ND		ug/kg	110	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	0.18	1
p-Ethyltoluene	ND		ug/kg	4.5	0.14	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.15	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	95		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04 D	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 10:49		
Analyst:	BN		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	2400	260	2
1,1-Dichloroethane	ND		ug/kg	360	20.	2
Chloroform	ND		ug/kg	360	88.	2
Carbon tetrachloride	ND		ug/kg	240	50.	2
1,2-Dichloropropane	ND		ug/kg	830	54.	2
Dibromochloromethane	ND		ug/kg	240	37.	2
1,1,2-Trichloroethane	ND		ug/kg	360	72.	2
Tetrachloroethene	ND		ug/kg	240	33.	2
Chlorobenzene	ND		ug/kg	240	83.	2
Trichlorofluoromethane	ND		ug/kg	1200	92.	2
1,2-Dichloroethane	ND		ug/kg	240	27.	2
1,1,1-Trichloroethane	ND		ug/kg	240	26.	2
Bromodichloromethane	ND		ug/kg	240	41.	2
trans-1,3-Dichloropropene	ND		ug/kg	240	29.	2
cis-1,3-Dichloropropene	ND		ug/kg	240	28.	2
1,3-Dichloropropene, Total	ND		ug/kg	240	28.	2
1,1-Dichloropropene	ND		ug/kg	1200	34.	2
Bromoform	ND		ug/kg	950	56.	2
1,1,2,2-Tetrachloroethane	ND		ug/kg	240	24.	2
Benzene	ND		ug/kg	240	28.	2
Toluene	ND		ug/kg	360	46.	2
Ethylbenzene	ND		ug/kg	240	30.	2
Chloromethane	ND		ug/kg	1200	70.	2
Bromomethane	ND		ug/kg	480	80.	2
Vinyl chloride	ND		ug/kg	480	28.	2
Chloroethane	ND		ug/kg	480	75.	2
1,1-Dichloroethene	ND		ug/kg	240	62.	2
trans-1,2-Dichloroethene	ND		ug/kg	360	50.	2
Trichloroethene	ND		ug/kg	240	30.	2
1,2-Dichlorobenzene	ND		ug/kg	1200	36.	2

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04 D Date Collected: 05/30/15 12:40

Client ID: EB12_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	1200	32.	2
1,4-Dichlorobenzene	ND		ug/kg	1200	33.	2
Methyl tert butyl ether	ND		ug/kg	480	20.	2
p/m-Xylene	300	J	ug/kg	480	47.	2
o-Xylene	240	J	ug/kg	480	41.	2
Xylenes, Total	540	J	ug/kg	480	41.	2
cis-1,2-Dichloroethene	ND		ug/kg	240	34.	2
1,2-Dichloroethene, Total	ND		ug/kg	240	34.	2
Dibromomethane	ND		ug/kg	2400	39.	2
Styrene	ND		ug/kg	480	96.	2
Dichlorodifluoromethane	ND		ug/kg	2400	45.	2
Acetone	ND		ug/kg	2400	250	2
Carbon disulfide	ND		ug/kg	2400	260	2
2-Butanone	ND		ug/kg	2400	65.	2
Vinyl acetate	ND		ug/kg	2400	32.	2
4-Methyl-2-pentanone	ND		ug/kg	2400	58.	2
1,2,3-Trichloropropane	ND		ug/kg	2400	39.	2
2-Hexanone	ND		ug/kg	2400	160	2
Bromochloromethane	ND		ug/kg	1200	66.	2
2,2-Dichloropropane	ND		ug/kg	1200	54.	2
1,2-Dibromoethane	ND		ug/kg	950	42.	2
1,3-Dichloropropane	ND		ug/kg	1200	35.	2
1,1,1,2-Tetrachloroethane	ND		ug/kg	240	76.	2
Bromobenzene	ND		ug/kg	1200	50.	2
n-Butylbenzene	ND		ug/kg	240	27.	2
sec-Butylbenzene	ND		ug/kg	240	29.	2
tert-Butylbenzene	ND		ug/kg	1200	32.	2
o-Chlorotoluene	ND		ug/kg	1200	38.	2
p-Chlorotoluene	ND		ug/kg	1200	32.	2
1,2-Dibromo-3-chloropropane	ND		ug/kg	1200	94.	2
Hexachlorobutadiene	ND		ug/kg	1200	54.	2
Isopropylbenzene	ND		ug/kg	240	25.	2
p-Isopropyltoluene	ND		ug/kg	240	30.	2
Naphthalene	53000		ug/kg	1200	33.	2
Acrylonitrile	ND		ug/kg	2400	120	2
n-Propylbenzene	ND		ug/kg	240	26.	2
1,2,3-Trichlorobenzene	ND		ug/kg	1200	35.	2
1,2,4-Trichlorobenzene	ND		ug/kg	1200	43.	2
1,3,5-Trimethylbenzene	290	J	ug/kg	1200	34.	2

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04 D Date Collected: 05/30/15 12:40

Client ID: EB12_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	540	J	ug/kg	1200	34.	2
1,4-Dioxane	ND		ug/kg	24000	3400	2
p-Diethylbenzene	200	J	ug/kg	950	38.	2
p-Ethyltoluene	ND		ug/kg	950	30.	2
1,2,4,5-Tetramethylbenzene	81	J	ug/kg	950	31.	2
Ethyl ether	ND		ug/kg	1200	62.	2
trans-1,4-Dichloro-2-butene	ND		ug/kg	1200	93.	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	96		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-05	Date Collected:	05/30/15 12:00
Client ID:	EB13_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 10:59		
Analyst:	BN		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.26	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.17	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.19	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05 Date Collected: 05/30/15 12:00

Client ID: EB13_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
Xylenes, Total	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.34	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.16	1
o-Chlorotoluene	ND		ug/kg	6.1	0.19	1
p-Chlorotoluene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.17	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05 Date Collected: 05/30/15 12:00

Client ID: EB13_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
1,4-Dioxane	ND		ug/kg	120	18.	1
p-Diethylbenzene	ND		ug/kg	4.8	0.19	1
p-Ethyltoluene	ND		ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-06	Date Collected:	05/30/15 00:00
Client ID:	DUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 11:26		
Analyst:	BN		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.10	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.25	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.17	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.14	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.13	1
Bromodichloromethane	ND		ug/kg	1.2	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.15	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.14	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.17	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.12	1
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.15	1
Chloromethane	ND		ug/kg	6.1	0.36	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.14	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.26	1
Trichloroethene	ND		ug/kg	1.2	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.18	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06 Date Collected: 05/30/15 00:00

Client ID: DUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.10	1
p/m-Xylene	ND		ug/kg	2.4	0.24	1
o-Xylene	ND		ug/kg	2.4	0.21	1
Xylenes, Total	ND		ug/kg	2.4	0.21	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.17	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	12	0.20	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.23	1
Acetone	ND		ug/kg	12	1.2	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.33	1
Vinyl acetate	ND		ug/kg	12	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.33	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.27	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.21	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.1	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.14	1
sec-Butylbenzene	ND		ug/kg	1.2	0.15	1
tert-Butylbenzene	ND		ug/kg	6.1	0.16	1
o-Chlorotoluene	ND		ug/kg	6.1	0.19	1
p-Chlorotoluene	ND		ug/kg	6.1	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.28	1
Isopropylbenzene	ND		ug/kg	1.2	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.15	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1
n-Propylbenzene	ND		ug/kg	1.2	0.13	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.17	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06 Date Collected: 05/30/15 00:00

Client ID: DUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.17	1
1,4-Dioxane	ND		ug/kg	120	18.	1
p-Diethylbenzene	ND		ug/kg	4.8	0.19	1
p-Ethyltoluene	ND		ug/kg	4.8	0.15	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.16	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-07	Date Collected:	05/30/15 16:35
Client ID:	MW11_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 11:08		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	15		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.2		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-08	Date Collected:	05/30/15 00:00
Client ID:	GWDUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	06/01/15 11:36		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	15		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	1.3		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	106		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:13
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-06 Batch: WG789621-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:13
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-06 Batch: WG789621-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:13
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-06 Batch: WG789621-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Diisopropyl Ether	ND		ug/kg	4.0	0.14
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:13
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 05-06 Batch: WG789621-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	93		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG789623-3					
Methylene chloride	ND		ug/kg	500	55.
1,1-Dichloroethane	ND		ug/kg	75	4.3
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	10.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	7.7
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	15.
Tetrachloroethene	ND		ug/kg	50	7.0
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	19.
1,2-Dichloroethane	ND		ug/kg	50	5.7
1,1,1-Trichloroethane	ND		ug/kg	50	5.5
Bromodichloromethane	ND		ug/kg	50	8.7
trans-1,3-Dichloropropene	ND		ug/kg	50	6.0
cis-1,3-Dichloropropene	ND		ug/kg	50	5.9
1,3-Dichloropropene, Total	ND		ug/kg	50	5.9
1,1-Dichloropropene	ND		ug/kg	250	7.1
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	5.0
Benzene	ND		ug/kg	50	5.9
Toluene	ND		ug/kg	75	9.7
Ethylbenzene	ND		ug/kg	50	6.4
Chloromethane	ND		ug/kg	250	15.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	5.9
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	13.
trans-1,2-Dichloroethene	ND		ug/kg	75	11.

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG789623-3					
Trichloroethene	ND		ug/kg	50	6.2
1,2-Dichlorobenzene	ND		ug/kg	250	7.7
1,3-Dichlorobenzene	ND		ug/kg	250	6.8
1,4-Dichlorobenzene	ND		ug/kg	250	6.9
Methyl tert butyl ether	ND		ug/kg	100	4.2
p/m-Xylene	ND		ug/kg	100	9.9
o-Xylene	ND		ug/kg	100	8.6
Xylenes, Total	ND		ug/kg	100	8.6
cis-1,2-Dichloroethene	ND		ug/kg	50	7.1
1,2-Dichloroethene, Total	ND		ug/kg	50	7.1
Dibromomethane	ND		ug/kg	500	8.2
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	9.5
Acetone	ND		ug/kg	500	52.
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	14.
Vinyl acetate	ND		ug/kg	500	6.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.1
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	14.
2,2-Dichloropropane	ND		ug/kg	250	11.
1,2-Dibromoethane	ND		ug/kg	200	8.7
1,3-Dichloropropane	ND		ug/kg	250	7.3
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	10.
n-Butylbenzene	ND		ug/kg	50	5.7
sec-Butylbenzene	ND		ug/kg	50	6.1
tert-Butylbenzene	ND		ug/kg	250	6.8

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG789623-3					
o-Chlorotoluene	ND		ug/kg	250	8.0
p-Chlorotoluene	ND		ug/kg	250	6.6
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	11.
Isopropylbenzene	ND		ug/kg	50	5.2
p-Isopropyltoluene	ND		ug/kg	50	6.2
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Diisopropyl Ether	ND		ug/kg	200	7.0
Tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	5.5
1,2,3-Trichlorobenzene	ND		ug/kg	250	7.4
1,2,4-Trichlorobenzene	ND		ug/kg	250	9.1
1,3,5-Trimethylbenzene	ND		ug/kg	250	7.2
1,2,4-Trimethylbenzene	ND		ug/kg	250	7.1
Methyl Acetate	ND		ug/kg	1000	14.
Ethyl Acetate	ND		ug/kg	1000	46.
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	7.3
1,4-Dioxane	ND		ug/kg	5000	720
Freon-113	ND		ug/kg	1000	14.
p-Diethylbenzene	ND		ug/kg	200	8.0
p-Ethyltoluene	ND		ug/kg	200	6.2
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	6.5
Tetrahydrofuran	ND		ug/kg	1000	50.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	7.7
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	5.8

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:05
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04 Batch: WG789623-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	4.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	94		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:03
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG789624-3					
Methylene chloride	ND		ug/kg	10	1.1
1,1-Dichloroethane	ND		ug/kg	1.5	0.09
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.15
2-Chloroethylvinyl ether	ND		ug/kg	20	0.62
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.39
1,2-Dichloroethane	ND		ug/kg	1.0	0.11
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.17
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.12
1,1-Dichloropropene	ND		ug/kg	5.0	0.14
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.10
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.19
Ethylbenzene	ND		ug/kg	1.0	0.13
Chloromethane	ND		ug/kg	5.0	0.29
Bromomethane	0.35	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.12
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.26
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:03
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG789624-3					
Trichloroethene	ND		ug/kg	1.0	0.12
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.15
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.14
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.14
Methyl tert butyl ether	ND		ug/kg	2.0	0.08
p/m-Xylene	ND		ug/kg	2.0	0.20
o-Xylene	ND		ug/kg	2.0	0.17
Xylenes, Total	ND		ug/kg	2.0	0.17
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.14
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.19
Acetone	ND		ug/kg	10	1.0
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.27
Vinyl acetate	ND		ug/kg	10	0.13
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.16
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.28
2,2-Dichloropropane	ND		ug/kg	5.0	0.23
1,2-Dibromoethane	ND		ug/kg	4.0	0.17
1,3-Dichloropropane	ND		ug/kg	5.0	0.14
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.11
sec-Butylbenzene	ND		ug/kg	1.0	0.12
tert-Butylbenzene	ND		ug/kg	5.0	0.14

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:03
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG789624-3					
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.13
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.23
Isopropylbenzene	ND		ug/kg	1.0	0.10
p-Isopropyltoluene	ND		ug/kg	1.0	0.12
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
Diisopropyl Ether	ND		ug/kg	4.0	0.14
Tert-Butyl Alcohol	ND		ug/kg	60	2.9
n-Propylbenzene	ND		ug/kg	1.0	0.11
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.15
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.18
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.14
Methyl Acetate	ND		ug/kg	20	0.27
Ethyl Acetate	ND		ug/kg	20	0.92
Acrolein	ND		ug/kg	25	8.1
Cyclohexane	ND		ug/kg	20	0.15
1,4-Dioxane	ND		ug/kg	100	14.
Freon-113	ND		ug/kg	20	0.27
p-Diethylbenzene	ND		ug/kg	4.0	0.16
p-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	1.0
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Methyl cyclohexane	ND		ug/kg	4.0	0.15
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.12

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 09:03
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-03 Batch: WG789624-3					
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.10

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	76		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	89		70-130

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 10:40
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789639-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
2-Chloroethylvinyl ether	ND		ug/l	10	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 10:40
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789639-3					
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Diisopropyl Ether	ND		ug/l	2.0	0.65
Tert-Butyl Alcohol	ND		ug/l	10	0.90
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Acrolein	ND		ug/l	5.0	0.63
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 10:40
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789639-3					
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Ethyl Acetate	ND		ug/l	10	0.70
Cyclohexane	ND		ug/l	10	0.27
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.5	0.70
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	0.28
1,4-Dioxane	ND		ug/l	250	41.
Freon-113	ND		ug/l	2.5	0.70
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Tetrahydrofuran	ND		ug/l	5.0	1.5
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/01/15 10:40
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789639-3					
Iodomethane	ND		ug/l	5.0	5.0
Methyl cyclohexane	ND		ug/l	10	0.40

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-06 Batch: WG789621-1 WG789621-2								
Methylene chloride	106		104		70-130	2		30
1,1-Dichloroethane	106		103		70-130	3		30
Chloroform	107		104		70-130	3		30
Carbon tetrachloride	105		98		70-130	7		30
1,2-Dichloropropane	107		104		70-130	3		30
Dibromochloromethane	91		90		70-130	1		30
2-Chloroethylvinyl ether	109		108		70-130	1		30
1,1,2-Trichloroethane	99		97		70-130	2		30
Tetrachloroethene	107		101		70-130	6		30
Chlorobenzene	106		103		70-130	3		30
Trichlorofluoromethane	127		116		70-139	9		30
1,2-Dichloroethane	94		94		70-130	0		30
1,1,1-Trichloroethane	108		102		70-130	6		30
Bromodichloromethane	104		102		70-130	2		30
trans-1,3-Dichloropropene	102		99		70-130	3		30
cis-1,3-Dichloropropene	111		110		70-130	1		30
1,1-Dichloropropene	119		112		70-130	6		30
Bromoform	89		87		70-130	2		30
1,1,2,2-Tetrachloroethane	88		86		70-130	2		30
Benzene	113		109		70-130	4		30
Toluene	106		102		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-06 Batch: WG789621-1 WG789621-2								
Ethylbenzene	111		106		70-130	5		30
Chloromethane	92		88		52-130	4		30
Bromomethane	134		130		57-147	3		30
Vinyl chloride	117		109		67-130	7		30
Chloroethane	145		138		50-151	5		30
1,1-Dichloroethene	118		109		65-135	8		30
trans-1,2-Dichloroethene	116		111		70-130	4		30
Trichloroethene	115		109		70-130	5		30
1,2-Dichlorobenzene	95		93		70-130	2		30
1,3-Dichlorobenzene	100		98		70-130	2		30
1,4-Dichlorobenzene	98		96		70-130	2		30
Methyl tert butyl ether	101		101		66-130	0		30
p/m-Xylene	114		109		70-130	4		30
o-Xylene	113		110		70-130	3		30
cis-1,2-Dichloroethene	114		112		70-130	2		30
Dibromomethane	104		103		70-130	1		30
Styrene	115		112		70-130	3		30
Dichlorodifluoromethane	107		96		30-146	11		30
Acetone	60		56		54-140	7		30
Carbon disulfide	102		98		59-130	4		30
2-Butanone	75		70		70-130	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-06 Batch: WG789621-1 WG789621-2								
Vinyl acetate	86		84		70-130	2		30
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	86		85		68-130	1		30
2-Hexanone	70		**66**	Q	70-130	6		30
Bromochloromethane	106		104		70-130	2		30
2,2-Dichloropropane	111		104		70-130	7		30
1,2-Dibromoethane	95		94		70-130	1		30
1,3-Dichloropropane	97		96		69-130	1		30
1,1,1,2-Tetrachloroethane	94		93		70-130	1		30
Bromobenzene	97		96		70-130	1		30
n-Butylbenzene	112		106		70-130	6		30
sec-Butylbenzene	111		105		70-130	6		30
tert-Butylbenzene	104		100		70-130	4		30
o-Chlorotoluene	106		82		70-130	26		30
p-Chlorotoluene	105		102		70-130	3		30
1,2-Dibromo-3-chloropropane	79		74		68-130	7		30
Hexachlorobutadiene	104		98		67-130	6		30
Isopropylbenzene	108		103		70-130	5		30
p-Isopropyltoluene	108		103		70-130	5		30
Naphthalene	83		82		70-130	1		30
Acrylonitrile	81		80		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-06 Batch: WG789621-1 WG789621-2								
Diisopropyl Ether	93		92		66-130	1		30
Tert-Butyl Alcohol	72		**68**	Q	70-130	6		30
n-Propylbenzene	109		104		70-130	5		30
1,2,3-Trichlorobenzene	94		93		70-130	1		30
1,2,4-Trichlorobenzene	100		99		70-130	1		30
1,3,5-Trimethylbenzene	106		103		70-130	3		30
1,2,4-Trimethylbenzene	106		104		70-130	2		30
Methyl Acetate	71		70		51-146	1		30
Ethyl Acetate	77		72		70-130	7		30
Acrolein	86		82		70-130	5		30
Cyclohexane	107		97		59-142	10		30
1,4-Dioxane	85		84		65-136	1		30
Freon-113	111		102		50-139	8		30
p-Diethylbenzene	106		101		70-130	5		30
p-Ethyltoluene	108		103		70-130	5		30
1,2,4,5-Tetramethylbenzene	101		99		70-130	2		30
Tetrahydrofuran	74		75		66-130	1		30
Ethyl ether	110		108		67-130	2		30
trans-1,4-Dichloro-2-butene	78		76		70-130	3		30
Methyl cyclohexane	117		107		70-130	9		30
Ethyl-Tert-Butyl-Ether	100		100		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 05-06 Batch: WG789621-1 WG789621-2								
Tertiary-Amyl Methyl Ether	106		105		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	84		82		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	101		102		70-130
Dibromofluoromethane	92		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG789623-1 WG789623-2								
Methylene chloride	104		102		70-130	2		30
1,1-Dichloroethane	109		107		70-130	2		30
Chloroform	108		108		70-130	0		30
Carbon tetrachloride	110		104		70-130	6		30
1,2-Dichloropropane	101		103		70-130	2		30
Dibromochloromethane	95		94		70-130	1		30
2-Chloroethylvinyl ether	83		87		70-130	5		30
1,1,2-Trichloroethane	100		101		70-130	1		30
Tetrachloroethene	104		100		70-130	4		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	113		111		70-139	2		30
1,2-Dichloroethane	110		111		70-130	1		30
1,1,1-Trichloroethane	108		105		70-130	3		30
Bromodichloromethane	99		101		70-130	2		30
trans-1,3-Dichloropropene	98		97		70-130	1		30
cis-1,3-Dichloropropene	99		101		70-130	2		30
1,1-Dichloropropene	105		101		70-130	4		30
Bromoform	93		92		70-130	1		30
1,1,2,2-Tetrachloroethane	94		94		70-130	0		30
Benzene	104		103		70-130	1		30
Toluene	101		99		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG789623-1 WG789623-2								
Ethylbenzene	102		100		70-130	2		30
Chloromethane	104		99		52-130	5		30
Bromomethane	124		123		57-147	1		30
Vinyl chloride	103		97		67-130	6		30
Chloroethane	123		119		50-151	3		30
1,1-Dichloroethene	103		96		65-135	7		30
trans-1,2-Dichloroethene	105		101		70-130	4		30
Trichloroethene	106		104		70-130	2		30
1,2-Dichlorobenzene	100		101		70-130	1		30
1,3-Dichlorobenzene	104		104		70-130	0		30
1,4-Dichlorobenzene	103		102		70-130	1		30
Methyl tert butyl ether	100		101		66-130	1		30
p/m-Xylene	102		100		70-130	2		30
o-Xylene	100		100		70-130	0		30
cis-1,2-Dichloroethene	103		103		70-130	0		30
Dibromomethane	98		101		70-130	3		30
Styrene	100		100		70-130	0		30
Dichlorodifluoromethane	94		86		30-146	9		30
Acetone	110		109		54-140	1		30
Carbon disulfide	94		90		59-130	4		30
2-Butanone	100		99		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG789623-1 WG789623-2								
Vinyl acetate	90		91		70-130	1		30
4-Methyl-2-pentanone	80		85		70-130	6		30
1,2,3-Trichloropropane	98		97		68-130	1		30
2-Hexanone	76		76		70-130	0		30
Bromochloromethane	110		110		70-130	0		30
2,2-Dichloropropane	107		101		70-130	6		30
1,2-Dibromoethane	96		96		70-130	0		30
1,3-Dichloropropane	98		99		69-130	1		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Bromobenzene	100		98		70-130	2		30
n-Butylbenzene	110		105		70-130	5		30
sec-Butylbenzene	103		99		70-130	4		30
tert-Butylbenzene	98		95		70-130	3		30
o-Chlorotoluene	105		102		70-130	3		30
p-Chlorotoluene	102		100		70-130	2		30
1,2-Dibromo-3-chloropropane	71		73		68-130	3		30
Hexachlorobutadiene	98		95		67-130	3		30
Isopropylbenzene	100		96		70-130	4		30
p-Isopropyltoluene	102		98		70-130	4		30
Naphthalene	84		87		70-130	4		30
Acrylonitrile	109		110		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG789623-1 WG789623-2								
Diisopropyl Ether	104		106		66-130	2		30
Tert-Butyl Alcohol	80		81		70-130	1		30
n-Propylbenzene	104		100		70-130	4		30
1,2,3-Trichlorobenzene	93		95		70-130	2		30
1,2,4-Trichlorobenzene	96		97		70-130	1		30
1,3,5-Trimethylbenzene	102		99		70-130	3		30
1,2,4-Trimethylbenzene	101		98		70-130	3		30
Methyl Acetate	106		106		51-146	0		30
Ethyl Acetate	98		102		70-130	4		30
Acrolein	86		81		70-130	6		30
Cyclohexane	110		101		59-142	9		30
1,4-Dioxane	95		98		65-136	3		30
Freon-113	117		104		50-139	12		30
p-Diethylbenzene	104		100		70-130	4		30
p-Ethyltoluene	105		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	96		95		70-130	1		30
Tetrahydrofuran	101		104		66-130	3		30
Ethyl ether	107		108		67-130	1		30
trans-1,4-Dichloro-2-butene	102		101		70-130	1		30
Methyl cyclohexane	106		98		70-130	8		30
Ethyl-Tert-Butyl-Ether	100		102		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04 Batch: WG789623-1 WG789623-2								
Tertiary-Amyl Methyl Ether	91		93		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		105		70-130
Toluene-d8	96		94		70-130
4-Bromofluorobenzene	94		92		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG789624-1 WG789624-2								
Methylene chloride	98		93		70-130	5		30
1,1-Dichloroethane	100		93		70-130	7		30
Chloroform	96		91		70-130	5		30
Carbon tetrachloride	104		96		70-130	8		30
1,2-Dichloropropane	97		94		70-130	3		30
Dibromochloromethane	87		88		70-130	1		30
2-Chloroethylvinyl ether	77		79		70-130	3		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	110		103		70-130	7		30
Chlorobenzene	102		100		70-130	2		30
Trichlorofluoromethane	98		86		70-139	13		30
1,2-Dichloroethane	77		76		70-130	1		30
1,1,1-Trichloroethane	101		93		70-130	8		30
Bromodichloromethane	87		86		70-130	1		30
trans-1,3-Dichloropropene	85		85		70-130	0		30
cis-1,3-Dichloropropene	94		93		70-130	1		30
1,1-Dichloropropene	110		99		70-130	11		30
Bromoform	90		89		70-130	1		30
1,1,2,2-Tetrachloroethane	85		85		70-130	0		30
Benzene	108		102		70-130	6		30
Toluene	105		101		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG789624-1 WG789624-2								
Ethylbenzene	105		100		70-130	5		30
Chloromethane	90		80		52-130	12		30
Bromomethane	98		88		57-147	11		30
Vinyl chloride	104		90		67-130	14		30
Chloroethane	107		97		50-151	10		30
1,1-Dichloroethene	120		104		65-135	14		30
trans-1,2-Dichloroethene	115		105		70-130	9		30
Trichloroethene	108		102		70-130	6		30
1,2-Dichlorobenzene	96		95		70-130	1		30
1,3-Dichlorobenzene	103		100		70-130	3		30
1,4-Dichlorobenzene	99		98		70-130	1		30
Methyl tert butyl ether	87		84		66-130	4		30
p/m-Xylene	111		106		70-130	5		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	109		103		70-130	6		30
Dibromomethane	87		87		70-130	0		30
Styrene	105		103		70-130	2		30
Dichlorodifluoromethane	81		69		30-146	16		30
Acetone	66		65		54-140	2		30
Carbon disulfide	82		69		59-130	17		30
2-Butanone	71		70		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG789624-1 WG789624-2								
Vinyl acetate	72		**69**	Q	70-130	4		30
4-Methyl-2-pentanone	71		71		70-130	0		30
1,2,3-Trichloropropane	80		79		68-130	1		30
2-Hexanone	**66**	Q	**65**	Q	70-130	2		30
Bromochloromethane	106		102		70-130	4		30
2,2-Dichloropropane	100		91		70-130	9		30
1,2-Dibromoethane	90		89		70-130	1		30
1,3-Dichloropropane	86		85		69-130	1		30
1,1,1,2-Tetrachloroethane	95		94		70-130	1		30
Bromobenzene	100		97		70-130	3		30
n-Butylbenzene	110		101		70-130	9		30
sec-Butylbenzene	112		104		70-130	7		30
tert-Butylbenzene	109		101		70-130	8		30
o-Chlorotoluene	100		95		70-130	5		30
p-Chlorotoluene	99		95		70-130	4		30
1,2-Dibromo-3-chloropropane	75		76		68-130	1		30
Hexachlorobutadiene	113		106		67-130	6		30
Isopropylbenzene	107		102		70-130	5		30
p-Isopropyltoluene	111		104		70-130	7		30
Naphthalene	86		85		70-130	1		30
Acrylonitrile	88		87		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG789624-1 WG789624-2								
Diisopropyl Ether	90		86		66-130	5		30
Tert-Butyl Alcohol	**66**	Q	**64**	Q	70-130	3		30
n-Propylbenzene	108		100		70-130	8		30
1,2,3-Trichlorobenzene	96		96		70-130	0		30
1,2,4-Trichlorobenzene	103		100		70-130	3		30
1,3,5-Trimethylbenzene	104		99		70-130	5		30
1,2,4-Trimethylbenzene	102		98		70-130	4		30
Methyl Acetate	82		79		51-146	4		30
Ethyl Acetate	84		80		70-130	5		30
Acrolein	77		76		70-130	1		30
Cyclohexane	122		108		59-142	12		30
1,4-Dioxane	78		79		65-136	1		30
Freon-113	123		107		50-139	14		30
p-Diethylbenzene	110		106		70-130	4		30
p-Ethyltoluene	110		106		70-130	4		30
1,2,4,5-Tetramethylbenzene	100		100		70-130	0		30
Tetrahydrofuran	78		76		66-130	3		30
Ethyl ether	100		96		67-130	4		30
trans-1,4-Dichloro-2-butene	76		75		70-130	1		30
Methyl cyclohexane	126		111		70-130	13		30
Ethyl-Tert-Butyl-Ether	87		84		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-03 Batch: WG789624-1 WG789624-2								
Tertiary-Amyl Methyl Ether	87		86		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	74		74		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	92		92		70-130
Dibromofluoromethane	94		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789639-1 WG789639-2								
Methylene chloride	91		82		70-130	10		20
1,1-Dichloroethane	116		105		70-130	10		20
Chloroform	119		108		70-130	10		20
2-Chloroethylvinyl ether	88		80		70-130	10		20
Carbon tetrachloride	109		100		63-132	9		20
1,2-Dichloropropane	105		96		70-130	9		20
Dibromochloromethane	102		91		63-130	11		20
1,1,2-Trichloroethane	100		93		70-130	7		20
Tetrachloroethene	108		98		70-130	10		20
Chlorobenzene	99		90		75-130	10		20
Trichlorofluoromethane	122		113		62-150	8		20
1,2-Dichloroethane	107		98		70-130	9		20
1,1,1-Trichloroethane	115		106		67-130	8		20
Bromodichloromethane	108		97		67-130	11		20
trans-1,3-Dichloropropene	111		99		70-130	11		20
cis-1,3-Dichloropropene	98		88		70-130	11		20
1,1-Dichloropropene	109		101		70-130	8		20
Bromoform	107		96		54-136	11		20
1,1,2,2-Tetrachloroethane	90		81		67-130	11		20
Benzene	107		97		70-130	10		20
Toluene	110		100		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789639-1 WG789639-2								
Ethylbenzene	103		94		70-130	9		20
Chloromethane	**51**	Q	**43**	Q	64-130	17		20
Bromomethane	74		64		39-139	14		20
Vinyl chloride	75		68		55-140	10		20
Chloroethane	102		90		55-138	13		20
1,1-Dichloroethene	108		99		61-145	9		20
trans-1,2-Dichloroethene	111		100		70-130	10		20
Trichloroethene	107		98		70-130	9		20
1,2-Dichlorobenzene	84		77		70-130	9		20
1,3-Dichlorobenzene	89		82		70-130	8		20
1,4-Dichlorobenzene	91		84		70-130	8		20
Methyl tert butyl ether	100		91		63-130	9		20
p/m-Xylene	101		92		70-130	9		20
o-Xylene	94		86		70-130	9		20
cis-1,2-Dichloroethene	110		100		70-130	10		20
Dibromomethane	97		89		70-130	9		20
1,2,3-Trichloropropane	104		99		64-130	5		20
Acrylonitrile	91		82		70-130	10		20
Diisopropyl Ether	108		98		70-130	10		20
Tert-Butyl Alcohol	88		83		70-130	6		20
Styrene	94		86		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789639-1 WG789639-2								
Dichlorodifluoromethane	45		42		36-147	7		20
Acetone	87		75		58-148	15		20
Carbon disulfide	97		87		51-130	11		20
2-Butanone	98		85		63-138	14		20
Vinyl acetate	96		87		70-130	10		20
4-Methyl-2-pentanone	76		70		59-130	8		20
2-Hexanone	80		73		57-130	9		20
Acrolein	87		78		40-160	11		20
Bromochloromethane	108		98		70-130	10		20
2,2-Dichloropropane	117		105		63-133	11		20
1,2-Dibromoethane	94		86		70-130	9		20
1,3-Dichloropropane	102		93		70-130	9		20
1,1,1,2-Tetrachloroethane	110		100		64-130	10		20
Bromobenzene	90		82		70-130	9		20
n-Butylbenzene	75		70		53-136	7		20
sec-Butylbenzene	73		**69**	Q	70-130	6		20
tert-Butylbenzene	76		70		70-130	8		20
o-Chlorotoluene	102		92		70-130	10		20
p-Chlorotoluene	95		86		70-130	10		20
1,2-Dibromo-3-chloropropane	84		77		41-144	9		20
Hexachlorobutadiene	72		68		63-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789639-1 WG789639-2								
Isopropylbenzene	93		86		70-130	8		20
p-Isopropyltoluene	73		**68**	Q	70-130	7		20
Naphthalene	86		79		70-130	8		20
n-Propylbenzene	91		84		69-130	8		20
1,2,3-Trichlorobenzene	92		86		70-130	7		20
1,2,4-Trichlorobenzene	88		83		70-130	6		20
1,3,5-Trimethylbenzene	92		85		64-130	8		20
1,2,4-Trimethylbenzene	86		79		70-130	8		20
Methyl Acetate	95		87		70-130	9		20
Ethyl Acetate	96		87		70-130	10		20
Cyclohexane	102		95		70-130	7		20
Ethyl-Tert-Butyl-Ether	102		94		70-130	8		20
Tertiary-Amyl Methyl Ether	95		87		66-130	9		20
1,4-Dioxane	100		91		56-162	9		20
Freon-113	114		105		70-130	8		20
p-Diethylbenzene	74		**68**	Q	70-130	8		20
p-Ethyltoluene	90		82		70-130	9		20
1,2,4,5-Tetramethylbenzene	82		74		70-130	10		20
Ethyl ether	100		91		59-134	9		20
trans-1,4-Dichloro-2-butene	103		87		70-130	17		20
Iodomethane	**67**	Q	**63**	Q	70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789639-1 WG789639-2								
Methyl cyclohexane	98		93		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	109		108		70-130

SEMIVOLATILES

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-01	Date Collected:	05/30/15 14:40
Client ID:	EB07_10-12	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 01:33
Analytical Date:	05/31/15 16:22		
Analyst:	KR		
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	44.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	70.	1
Hexachlorobenzene	ND		ug/kg	130	40.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	60.	1
2-Chloronaphthalene	ND		ug/kg	210	70.	1
1,2-Dichlorobenzene	ND		ug/kg	210	70.	1
1,3-Dichlorobenzene	ND		ug/kg	210	68.	1
1,4-Dichlorobenzene	ND		ug/kg	210	65.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	57.	1
2,4-Dinitrotoluene	ND		ug/kg	210	46.	1
2,6-Dinitrotoluene	ND		ug/kg	210	55.	1
Fluoranthene	ND		ug/kg	130	39.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	65.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	49.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	75.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	65.	1
Hexachlorobutadiene	ND		ug/kg	210	60.	1
Hexachlorocyclopentadiene	ND		ug/kg	610	140	1
Hexachloroethane	ND		ug/kg	170	39.	1
Isophorone	ND		ug/kg	190	57.	1
Naphthalene	ND		ug/kg	210	71.	1
Nitrobenzene	ND		ug/kg	190	51.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	170	45.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	64.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	210	56.	1
Butyl benzyl phthalate	ND		ug/kg	210	42.	1
Di-n-butylphthalate	ND		ug/kg	210	41.	1
Di-n-octylphthalate	ND		ug/kg	210	53.	1
Diethyl phthalate	ND		ug/kg	210	45.	1
Dimethyl phthalate	ND		ug/kg	210	54.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01 Date Collected: 05/30/15 14:40

Client ID: EB07_10-12 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	130	42.	1
Benzo(a)pyrene	ND		ug/kg	170	52.	1
Benzo(b)fluoranthene	ND		ug/kg	130	43.	1
Benzo(k)fluoranthene	ND		ug/kg	130	41.	1
Chrysene	ND		ug/kg	130	42.	1
Acenaphthylene	ND		ug/kg	170	40.	1
Anthracene	ND		ug/kg	130	36.	1
Benzo(ghi)perylene	ND		ug/kg	170	44.	1
Fluorene	ND		ug/kg	210	61.	1
Phenanthrene	ND		ug/kg	130	42.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	41.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	170	48.	1
Pyrene	ND		ug/kg	130	42.	1
Biphenyl	ND		ug/kg	490	71.	1
4-Chloroaniline	ND		ug/kg	210	56.	1
2-Nitroaniline	ND		ug/kg	210	60.	1
3-Nitroaniline	ND		ug/kg	210	59.	1
4-Nitroaniline	ND		ug/kg	210	58.	1
Dibenzofuran	ND		ug/kg	210	72.	1
2-Methylnaphthalene	ND		ug/kg	260	68.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	66.	1
Acetophenone	ND		ug/kg	210	66.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
P-Chloro-M-Cresol	ND		ug/kg	210	62.	1
2-Chlorophenol	ND		ug/kg	210	65.	1
2,4-Dichlorophenol	ND		ug/kg	190	69.	1
2,4-Dimethylphenol	ND		ug/kg	210	64.	1
2-Nitrophenol	ND		ug/kg	460	67.	1
4-Nitrophenol	ND		ug/kg	300	69.	1
2,4-Dinitrophenol	ND		ug/kg	1000	290	1
4,6-Dinitro-o-cresol	ND		ug/kg	560	78.	1
Pentachlorophenol	ND		ug/kg	170	46.	1
Phenol	ND		ug/kg	210	63.	1
2-Methylphenol	ND		ug/kg	210	69.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	310	70.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	69.	1
Benzoic Acid	ND		ug/kg	690	220	1
Benzyl Alcohol	ND		ug/kg	210	66.	1
Carbazole	ND		ug/kg	210	46.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01 Date Collected: 05/30/15 14:40

Client ID: EB07_10-12 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	97		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	104		30-120
2,4,6-Tribromophenol	116		10-136
4-Terphenyl-d14	117		18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02 D	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 01:33
Analytical Date:	05/31/15 18:05		
Analyst:	KR		
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1900		ug/kg	740	190	4
1,2,4-Trichlorobenzene	ND		ug/kg	930	300	4
Hexachlorobenzene	ND		ug/kg	560	170	4
Bis(2-chloroethyl)ether	ND		ug/kg	840	260	4
2-Chloronaphthalene	ND		ug/kg	930	300	4
1,2-Dichlorobenzene	ND		ug/kg	930	300	4
1,3-Dichlorobenzene	ND		ug/kg	930	290	4
1,4-Dichlorobenzene	ND		ug/kg	930	280	4
3,3'-Dichlorobenzidine	ND		ug/kg	930	250	4
2,4-Dinitrotoluene	ND		ug/kg	930	200	4
2,6-Dinitrotoluene	ND		ug/kg	930	240	4
Fluoranthene	23000		ug/kg	560	170	4
4-Chlorophenyl phenyl ether	ND		ug/kg	930	280	4
4-Bromophenyl phenyl ether	ND		ug/kg	930	210	4
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	330	4
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	280	4
Hexachlorobutadiene	ND		ug/kg	930	260	4
Hexachlorocyclopentadiene	ND		ug/kg	2600	600	4
Hexachloroethane	ND		ug/kg	740	170	4
Isophorone	ND		ug/kg	840	250	4
Naphthalene	3200		ug/kg	930	310	4
Nitrobenzene	ND		ug/kg	840	220	4
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	740	200	4
n-Nitrosodi-n-propylamine	ND		ug/kg	930	280	4
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	930	240	4
Butyl benzyl phthalate	ND		ug/kg	930	180	4
Di-n-butylphthalate	ND		ug/kg	930	180	4
Di-n-octylphthalate	ND		ug/kg	930	230	4
Diethyl phthalate	ND		ug/kg	930	200	4
Dimethyl phthalate	ND		ug/kg	930	240	4

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 D Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	17000		ug/kg	560	180	4
Benzo(a)pyrene	17000		ug/kg	740	230	4
Benzo(b)fluoranthene	21000		ug/kg	560	190	4
Benzo(k)fluoranthene	7900		ug/kg	560	180	4
Chrysene	18000		ug/kg	560	180	4
Acenaphthylene	2200		ug/kg	740	170	4
Anthracene	5000		ug/kg	560	150	4
Benzo(ghi)perylene	12000		ug/kg	740	190	4
Fluorene	1600		ug/kg	930	270	4
Phenanthrene	16000		ug/kg	560	180	4
Dibenzo(a,h)anthracene	3600		ug/kg	560	180	4
Indeno(1,2,3-cd)Pyrene	10000		ug/kg	740	210	4
Pyrene	23000		ug/kg	560	180	4
Biphenyl	410	J	ug/kg	2100	310	4
4-Chloroaniline	ND		ug/kg	930	240	4
2-Nitroaniline	ND		ug/kg	930	260	4
3-Nitroaniline	ND		ug/kg	930	260	4
4-Nitroaniline	ND		ug/kg	930	250	4
Dibenzofuran	1500		ug/kg	930	310	4
2-Methylnaphthalene	1200		ug/kg	1100	300	4
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	930	290	4
Acetophenone	ND		ug/kg	930	290	4
2,4,6-Trichlorophenol	ND		ug/kg	560	180	4
P-Chloro-M-Cresol	ND		ug/kg	930	270	4
2-Chlorophenol	ND		ug/kg	930	280	4
2,4-Dichlorophenol	ND		ug/kg	840	300	4
2,4-Dimethylphenol	ND		ug/kg	930	280	4
2-Nitrophenol	ND		ug/kg	2000	290	4
4-Nitrophenol	ND		ug/kg	1300	300	4
2,4-Dinitrophenol	ND		ug/kg	4500	1300	4
4,6-Dinitro-o-cresol	ND		ug/kg	2400	340	4
Pentachlorophenol	ND		ug/kg	740	200	4
Phenol	ND		ug/kg	930	280	4
2-Methylphenol	ND		ug/kg	930	300	4
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	300	4
2,4,5-Trichlorophenol	ND		ug/kg	930	300	4
Benzoic Acid	ND		ug/kg	3000	940	4
Benzyl Alcohol	ND		ug/kg	930	290	4
Carbazole	1900		ug/kg	930	200	4

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 D Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	74		18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-03 D	Date Collected:	05/30/15 10:35
Client ID:	EB10_1-2	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 01:33
Analytical Date:	05/31/15 17:39		
Analyst:	KR		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	300	76.	2
1,2,4-Trichlorobenzene	ND		ug/kg	370	120	2
Hexachlorobenzene	ND		ug/kg	220	69.	2
Bis(2-chloroethyl)ether	ND		ug/kg	330	100	2
2-Chloronaphthalene	ND		ug/kg	370	120	2
1,2-Dichlorobenzene	ND		ug/kg	370	120	2
1,3-Dichlorobenzene	ND		ug/kg	370	120	2
1,4-Dichlorobenzene	ND		ug/kg	370	110	2
3,3'-Dichlorobenzidine	ND		ug/kg	370	98.	2
2,4-Dinitrotoluene	ND		ug/kg	370	80.	2
2,6-Dinitrotoluene	ND		ug/kg	370	95.	2
Fluoranthene	110	J	ug/kg	220	68.	2
4-Chlorophenyl phenyl ether	ND		ug/kg	370	110	2
4-Bromophenyl phenyl ether	ND		ug/kg	370	85.	2
Bis(2-chloroisopropyl)ether	ND		ug/kg	440	130	2
Bis(2-chloroethoxy)methane	ND		ug/kg	400	110	2
Hexachlorobutadiene	ND		ug/kg	370	100	2
Hexachlorocyclopentadiene	ND		ug/kg	1000	240	2
Hexachloroethane	ND		ug/kg	300	67.	2
Isophorone	ND		ug/kg	330	98.	2
Naphthalene	ND		ug/kg	370	120	2
Nitrobenzene	ND		ug/kg	330	88.	2
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	300	78.	2
n-Nitrosodi-n-propylamine	ND		ug/kg	370	110	2
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	370	97.	2
Butyl benzyl phthalate	ND		ug/kg	370	72.	2
Di-n-butylphthalate	ND		ug/kg	370	71.	2
Di-n-octylphthalate	ND		ug/kg	370	91.	2
Diethyl phthalate	ND		ug/kg	370	78.	2
Dimethyl phthalate	ND		ug/kg	370	94.	2

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03 D Date Collected: 05/30/15 10:35

Client ID: EB10_1-2 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	220	72.	2
Benzo(a)pyrene	ND		ug/kg	300	90.	2
Benzo(b)fluoranthene	ND		ug/kg	220	75.	2
Benzo(k)fluoranthene	ND		ug/kg	220	71.	2
Chrysene	ND		ug/kg	220	73.	2
Acenaphthylene	ND		ug/kg	300	69.	2
Anthracene	ND		ug/kg	220	62.	2
Benzo(ghi)perylene	ND		ug/kg	300	77.	2
Fluorene	ND		ug/kg	370	110	2
Phenanthrene	ND		ug/kg	220	72.	2
Dibenzo(a,h)anthracene	ND		ug/kg	220	72.	2
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	300	82.	2
Pyrene	96	J	ug/kg	220	72.	2
Biphenyl	ND		ug/kg	840	120	2
4-Chloroaniline	ND		ug/kg	370	98.	2
2-Nitroaniline	ND		ug/kg	370	100	2
3-Nitroaniline	ND		ug/kg	370	100	2
4-Nitroaniline	ND		ug/kg	370	100	2
Dibenzofuran	ND		ug/kg	370	120	2
2-Methylnaphthalene	ND		ug/kg	440	120	2
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	370	110	2
Acetophenone	ND		ug/kg	370	110	2
2,4,6-Trichlorophenol	ND		ug/kg	220	70.	2
P-Chloro-M-Cresol	ND		ug/kg	370	110	2
2-Chlorophenol	ND		ug/kg	370	110	2
2,4-Dichlorophenol	ND		ug/kg	330	120	2
2,4-Dimethylphenol	ND		ug/kg	370	110	2
2-Nitrophenol	ND		ug/kg	800	120	2
4-Nitrophenol	ND		ug/kg	520	120	2
2,4-Dinitrophenol	ND		ug/kg	1800	510	2
4,6-Dinitro-o-cresol	ND		ug/kg	960	140	2
Pentachlorophenol	ND		ug/kg	300	79.	2
Phenol	ND		ug/kg	370	110	2
2-Methylphenol	ND		ug/kg	370	120	2
3-Methylphenol/4-Methylphenol	ND		ug/kg	530	120	2
2,4,5-Trichlorophenol	ND		ug/kg	370	120	2
Benzoic Acid	ND		ug/kg	1200	370	2
Benzyl Alcohol	ND		ug/kg	370	110	2
Carbazole	ND		ug/kg	370	80.	2

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03 D Date Collected: 05/30/15 10:35

Client ID: EB10_1-2 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	86		18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04 D2	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 19:11
Analytical Date:	06/01/15 13:37		
Analyst:	AS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	600000		ug/kg	12000	3800	105
Phenanthrene	620000		ug/kg	12000	4000	105
Pyrene	480000		ug/kg	12000	4000	105

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04 D	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 19:11
Analytical Date:	06/01/15 12:21		
Analyst:	AS		
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	58000		ug/kg	8200	2100	52.5
1,2,4-Trichlorobenzene	ND		ug/kg	10000	3400	52.5
Hexachlorobenzene	ND		ug/kg	6100	1900	52.5
Bis(2-chloroethyl)ether	ND		ug/kg	9200	2900	52.5
2-Chloronaphthalene	ND		ug/kg	10000	3300	52.5
1,2-Dichlorobenzene	ND		ug/kg	10000	3400	52.5
1,3-Dichlorobenzene	ND		ug/kg	10000	3200	52.5
1,4-Dichlorobenzene	ND		ug/kg	10000	3100	52.5
3,3'-Dichlorobenzidine	ND		ug/kg	10000	2700	52.5
2,4-Dinitrotoluene	ND		ug/kg	10000	2200	52.5
2,6-Dinitrotoluene	ND		ug/kg	10000	2600	52.5
Fluoranthene	520000	E	ug/kg	6100	1900	52.5
4-Chlorophenyl phenyl ether	ND		ug/kg	10000	3100	52.5
4-Bromophenyl phenyl ether	ND		ug/kg	10000	2400	52.5
Bis(2-chloroisopropyl)ether	ND		ug/kg	12000	3600	52.5
Bis(2-chloroethoxy)methane	ND		ug/kg	11000	3100	52.5
Hexachlorobutadiene	ND		ug/kg	10000	2900	52.5
Hexachlorocyclopentadiene	ND		ug/kg	29000	6600	52.5
Hexachloroethane	ND		ug/kg	8200	1900	52.5
Isophorone	ND		ug/kg	9200	2700	52.5
Naphthalene	110000		ug/kg	10000	3400	52.5
Nitrobenzene	ND		ug/kg	9200	2400	52.5
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	8200	2200	52.5
n-Nitrosodi-n-propylamine	ND		ug/kg	10000	3000	52.5
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	10000	2700	52.5
Butyl benzyl phthalate	ND		ug/kg	10000	2000	52.5
Di-n-butylphthalate	ND		ug/kg	10000	2000	52.5
Di-n-octylphthalate	ND		ug/kg	10000	2500	52.5
Diethyl phthalate	ND		ug/kg	10000	2200	52.5
Dimethyl phthalate	ND		ug/kg	10000	2600	52.5

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04 D Date Collected: 05/30/15 12:40

Client ID: EB12_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	270000		ug/kg	6100	2000	52.5
Benzo(a)pyrene	260000		ug/kg	8200	2500	52.5
Benzo(b)fluoranthene	270000		ug/kg	6100	2100	52.5
Benzo(k)fluoranthene	190000		ug/kg	6100	2000	52.5
Chrysene	270000		ug/kg	6100	2000	52.5
Acenaphthylene	42000		ug/kg	8200	1900	52.5
Anthracene	140000		ug/kg	6100	1700	52.5
Benzo(ghi)perylene	180000		ug/kg	8200	2100	52.5
Fluorene	76000		ug/kg	10000	2900	52.5
Phenanthrene	520000	E	ug/kg	6100	2000	52.5
Dibenzo(a,h)anthracene	60000		ug/kg	6100	2000	52.5
Indeno(1,2,3-cd)Pyrene	170000		ug/kg	8200	2300	52.5
Pyrene	430000	E	ug/kg	6100	2000	52.5
Biphenyl	14000	J	ug/kg	23000	3400	52.5
4-Chloroaniline	ND		ug/kg	10000	2700	52.5
2-Nitroaniline	ND		ug/kg	10000	2900	52.5
3-Nitroaniline	ND		ug/kg	10000	2800	52.5
4-Nitroaniline	ND		ug/kg	10000	2800	52.5
Dibenzofuran	71000		ug/kg	10000	3400	52.5
2-Methylnaphthalene	50000		ug/kg	12000	3300	52.5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	10000	3200	52.5
Acetophenone	ND		ug/kg	10000	3200	52.5
2,4,6-Trichlorophenol	ND		ug/kg	6100	1900	52.5
P-Chloro-M-Cresol	ND		ug/kg	10000	3000	52.5
2-Chlorophenol	ND		ug/kg	10000	3100	52.5
2,4-Dichlorophenol	ND		ug/kg	9200	3300	52.5
2,4-Dimethylphenol	3800	J	ug/kg	10000	3000	52.5
2-Nitrophenol	ND		ug/kg	22000	3200	52.5
4-Nitrophenol	ND		ug/kg	14000	3300	52.5
2,4-Dinitrophenol	ND		ug/kg	49000	14000	52.5
4,6-Dinitro-o-cresol	ND		ug/kg	27000	3800	52.5
Pentachlorophenol	ND		ug/kg	8200	2200	52.5
Phenol	3900	J	ug/kg	10000	3000	52.5
2-Methylphenol	ND		ug/kg	10000	3300	52.5
3-Methylphenol/4-Methylphenol	8100	J	ug/kg	15000	3400	52.5
2,4,5-Trichlorophenol	ND		ug/kg	10000	3300	52.5
Benzoic Acid	ND		ug/kg	33000	10000	52.5
Benzyl Alcohol	ND		ug/kg	10000	3200	52.5
Carbazole	100000		ug/kg	10000	2200	52.5

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04 D Date Collected: 05/30/15 12:40

Client ID: EB12_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**0**	Q	25-120
Phenol-d6	**0**	Q	10-120
Nitrobenzene-d5	**0**	Q	23-120
2-Fluorobiphenyl	**0**	Q	30-120
2,4,6-Tribromophenol	**0**	Q	10-136
4-Terphenyl-d14	**0**	Q	18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-05	Date Collected:	05/30/15 12:00
Client ID:	EB13_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 01:33
Analytical Date:	05/31/15 17:13		
Analyst:	KR		
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	180		ug/kg	150	38.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	61.	1
Hexachlorobenzene	ND		ug/kg	110	34.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	52.	1
2-Chloronaphthalene	ND		ug/kg	180	60.	1
1,2-Dichlorobenzene	ND		ug/kg	180	61.	1
1,3-Dichlorobenzene	ND		ug/kg	180	58.	1
1,4-Dichlorobenzene	ND		ug/kg	180	56.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	40.	1
2,6-Dinitrotoluene	ND		ug/kg	180	47.	1
Fluoranthene	2400		ug/kg	110	34.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	56.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	42.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	65.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	56.	1
Hexachlorobutadiene	ND		ug/kg	180	52.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	120	1
Hexachloroethane	ND		ug/kg	150	34.	1
Isophorone	ND		ug/kg	170	49.	1
Naphthalene	200		ug/kg	180	61.	1
Nitrobenzene	ND		ug/kg	170	44.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	150	39.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	55.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	180	48.	1
Butyl benzyl phthalate	ND		ug/kg	180	36.	1
Di-n-butylphthalate	ND		ug/kg	180	36.	1
Di-n-octylphthalate	ND		ug/kg	180	45.	1
Diethyl phthalate	ND		ug/kg	180	39.	1
Dimethyl phthalate	ND		ug/kg	180	47.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05 Date Collected: 05/30/15 12:00

Client ID: EB13_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	900		ug/kg	110	36.	1
Benzo(a)pyrene	840		ug/kg	150	45.	1
Benzo(b)fluoranthene	1000		ug/kg	110	37.	1
Benzo(k)fluoranthene	370		ug/kg	110	35.	1
Chrysene	910		ug/kg	110	36.	1
Acenaphthylene	150		ug/kg	150	34.	1
Anthracene	460		ug/kg	110	31.	1
Benzo(ghi)perylene	570		ug/kg	150	38.	1
Fluorene	200		ug/kg	180	53.	1
Phenanthrene	2000		ug/kg	110	36.	1
Dibenzo(a,h)anthracene	150		ug/kg	110	36.	1
Indeno(1,2,3-cd)Pyrene	480		ug/kg	150	41.	1
Pyrene	2000		ug/kg	110	36.	1
Biphenyl	ND		ug/kg	420	61.	1
4-Chloroaniline	ND		ug/kg	180	49.	1
2-Nitroaniline	ND		ug/kg	180	52.	1
3-Nitroaniline	ND		ug/kg	180	51.	1
4-Nitroaniline	ND		ug/kg	180	50.	1
Dibenzofuran	170	J	ug/kg	180	62.	1
2-Methylnaphthalene	93	J	ug/kg	220	59.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	57.	1
Acetophenone	ND		ug/kg	180	57.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
P-Chloro-M-Cresol	ND		ug/kg	180	54.	1
2-Chlorophenol	ND		ug/kg	180	56.	1
2,4-Dichlorophenol	ND		ug/kg	170	60.	1
2,4-Dimethylphenol	ND		ug/kg	180	55.	1
2-Nitrophenol	ND		ug/kg	400	58.	1
4-Nitrophenol	ND		ug/kg	260	60.	1
2,4-Dinitrophenol	ND		ug/kg	890	250	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	68.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	55.	1
2-Methylphenol	ND		ug/kg	180	60.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	61.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	60.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	240		ug/kg	180	40.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05 Date Collected: 05/30/15 12:00

Client ID: EB13_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	97		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	103		18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-06	Date Collected:	05/30/15 00:00
Client ID:	DUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	05/31/15 01:33
Analytical Date:	05/31/15 16:48		
Analyst:	KR		
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	45.	1
1,2,4-Trichlorobenzene	ND		ug/kg	220	72.	1
Hexachlorobenzene	ND		ug/kg	130	41.	1
Bis(2-chloroethyl)ether	ND		ug/kg	200	62.	1
2-Chloronaphthalene	ND		ug/kg	220	72.	1
1,2-Dichlorobenzene	ND		ug/kg	220	72.	1
1,3-Dichlorobenzene	ND		ug/kg	220	70.	1
1,4-Dichlorobenzene	ND		ug/kg	220	67.	1
3,3'-Dichlorobenzidine	ND		ug/kg	220	59.	1
2,4-Dinitrotoluene	ND		ug/kg	220	48.	1
2,6-Dinitrotoluene	ND		ug/kg	220	56.	1
Fluoranthene	ND		ug/kg	130	40.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	220	67.	1
4-Bromophenyl phenyl ether	ND		ug/kg	220	51.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	260	78.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	240	67.	1
Hexachlorobutadiene	ND		ug/kg	220	62.	1
Hexachlorocyclopentadiene	ND		ug/kg	630	140	1
Hexachloroethane	ND		ug/kg	180	40.	1
Isophorone	ND		ug/kg	200	59.	1
Naphthalene	ND		ug/kg	220	73.	1
Nitrobenzene	ND		ug/kg	200	52.	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	180	46.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	220	66.	1
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	220	58.	1
Butyl benzyl phthalate	ND		ug/kg	220	43.	1
Di-n-butylphthalate	ND		ug/kg	220	42.	1
Di-n-octylphthalate	ND		ug/kg	220	54.	1
Diethyl phthalate	ND		ug/kg	220	47.	1
Dimethyl phthalate	ND		ug/kg	220	56.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06 Date Collected: 05/30/15 00:00

Client ID: DUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)anthracene	ND		ug/kg	130	43.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	44.	1
Benzo(k)fluoranthene	ND		ug/kg	130	42.	1
Chrysene	ND		ug/kg	130	43.	1
Acenaphthylene	ND		ug/kg	180	41.	1
Anthracene	ND		ug/kg	130	37.	1
Benzo(ghi)perylene	ND		ug/kg	180	46.	1
Fluorene	ND		ug/kg	220	63.	1
Phenanthrene	ND		ug/kg	130	43.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	43.	1
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	180	49.	1
Pyrene	ND		ug/kg	130	43.	1
Biphenyl	ND		ug/kg	500	73.	1
4-Chloroaniline	ND		ug/kg	220	58.	1
2-Nitroaniline	ND		ug/kg	220	62.	1
3-Nitroaniline	ND		ug/kg	220	61.	1
4-Nitroaniline	ND		ug/kg	220	60.	1
Dibenzofuran	ND		ug/kg	220	74.	1
2-Methylnaphthalene	ND		ug/kg	260	70.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	220	68.	1
Acetophenone	ND		ug/kg	220	68.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	42.	1
P-Chloro-M-Cresol	ND		ug/kg	220	64.	1
2-Chlorophenol	ND		ug/kg	220	67.	1
2,4-Dichlorophenol	ND		ug/kg	200	71.	1
2,4-Dimethylphenol	ND		ug/kg	220	66.	1
2-Nitrophenol	ND		ug/kg	480	69.	1
4-Nitrophenol	ND		ug/kg	310	71.	1
2,4-Dinitrophenol	ND		ug/kg	1000	300	1
4,6-Dinitro-o-cresol	ND		ug/kg	570	81.	1
Pentachlorophenol	ND		ug/kg	180	47.	1
Phenol	ND		ug/kg	220	65.	1
2-Methylphenol	ND		ug/kg	220	71.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	72.	1
2,4,5-Trichlorophenol	ND		ug/kg	220	71.	1
Benzoic Acid	ND		ug/kg	710	220	1
Benzyl Alcohol	ND		ug/kg	220	68.	1
Carbazole	ND		ug/kg	220	47.	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06 Date Collected: 05/30/15 00:00

Client ID: DUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	68		18-120

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-07	Date Collected:	05/30/15 16:35
Client ID:	MW11_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	05/31/15 02:40
Analytical Date:	05/31/15 17:11		
Analyst:	KR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	91		41-149

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-07	Date Collected:	05/30/15 16:35
Client ID:	MW11_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	05/31/15 02:41
Analytical Date:	05/31/15 14:04		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.05	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	0.10	J	ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		21-120
Phenol-d6	23		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	72		41-149

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-08	Date Collected:	05/30/15 00:00
Client ID:	GWDUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	05/31/15 02:40
Analytical Date:	05/31/15 17:36		
Analyst:	KR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.58	1
Isophorone	ND		ug/l	5.0	0.79	1
Nitrobenzene	ND		ug/l	2.0	0.40	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.1	1
Di-n-butylphthalate	ND		ug/l	5.0	0.77	1
Di-n-octylphthalate	ND		ug/l	5.0	1.2	1
Diethyl phthalate	ND		ug/l	5.0	0.39	1
Dimethyl phthalate	ND		ug/l	5.0	0.33	1
Biphenyl	ND		ug/l	2.0	0.24	1
4-Chloroaniline	ND		ug/l	5.0	0.84	1
2-Nitroaniline	ND		ug/l	5.0	0.96	1
3-Nitroaniline	ND		ug/l	5.0	0.67	1
4-Nitroaniline	ND		ug/l	5.0	0.83	1
Dibenzofuran	ND		ug/l	2.0	0.22	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acetophenone	ND		ug/l	5.0	0.43	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54	1
2-Chlorophenol	ND		ug/l	2.0	0.58	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.56	1
2,4-Dimethylphenol	ND		ug/l	5.0	0.58	1
2-Nitrophenol	ND		ug/l	10	1.0	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4	1
Phenol	ND		ug/l	5.0	0.27	1
2-Methylphenol	ND		ug/l	5.0	0.70	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.68	1
Carbazole	ND		ug/l	2.0	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	22		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	93		41-149

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-08	Date Collected:	05/30/15 00:00
Client ID:	GWDUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	05/31/15 02:41
Analytical Date:	05/31/15 14:29		
Analyst:	MW		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.04	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	0.10	J	ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	32		21-120
Phenol-d6	21		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	70		41-149

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 15:06
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 05/31/15 01:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG789446-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	53.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	53.
1,3-Dichlorobenzene	ND		ug/kg	160	51.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	37.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	57.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	49.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	460	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	43.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	48.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 15:06
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 05/31/15 01:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG789446-1					
Dimethyl phthalate	ND		ug/kg	160	41.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	30.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	54.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	50.
Acetophenone	ND		ug/kg	160	50.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	48.
2-Nitrophenol	ND		ug/kg	350	51.

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 15:06
Analyst: KR

Extraction Method: EPA 3546
Extraction Date: 05/31/15 01:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,05-06 Batch: WG789446-1					
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	52.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	53.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	112		18-120

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 15:55
Analyst: KR

Extraction Method: EPA 3510C
Extraction Date: 05/31/15 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789448-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.21
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.41
1,2-Dichlorobenzene	ND		ug/l	2.0	0.30
1,3-Dichlorobenzene	ND		ug/l	2.0	0.35
1,4-Dichlorobenzene	ND		ug/l	2.0	0.32
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.48
2,4-Dinitrotoluene	ND		ug/l	5.0	1.0
2,6-Dinitrotoluene	ND		ug/l	5.0	0.89
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.36
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.43
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.60
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.60
Hexachlorocyclopentadiene	ND		ug/l	20	0.58
Isophorone	ND		ug/l	5.0	0.79
Nitrobenzene	ND		ug/l	2.0	0.40
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.34
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	0.93
Butyl benzyl phthalate	ND		ug/l	5.0	1.1
Di-n-butylphthalate	ND		ug/l	5.0	0.77
Di-n-octylphthalate	ND		ug/l	5.0	1.2
Diethyl phthalate	ND		ug/l	5.0	0.39
Dimethyl phthalate	ND		ug/l	5.0	0.33
Biphenyl	ND		ug/l	2.0	0.24
4-Chloroaniline	ND		ug/l	5.0	0.84
2-Nitroaniline	ND		ug/l	5.0	0.96
3-Nitroaniline	ND		ug/l	5.0	0.67
4-Nitroaniline	ND		ug/l	5.0	0.83
Dibenzofuran	ND		ug/l	2.0	0.22

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 15:55
Analyst: KR

Extraction Method: EPA 3510C
Extraction Date: 05/31/15 02:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07-08 Batch: WG789448-1					
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.36
Acetophenone	ND		ug/l	5.0	0.43
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.78
P-Chloro-M-Cresol	ND		ug/l	2.0	0.54
2-Chlorophenol	ND		ug/l	2.0	0.58
2,4-Dichlorophenol	ND		ug/l	5.0	0.56
2,4-Dimethylphenol	ND		ug/l	5.0	0.58
2-Nitrophenol	ND		ug/l	10	1.0
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	1.4
Phenol	ND		ug/l	5.0	0.27
2-Methylphenol	ND		ug/l	5.0	0.70
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.72
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.75
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.68
Carbazole	ND		ug/l	2.0	0.37

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	101		41-149

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/31/15 12:25
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 05/31/15 02:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG789449-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/31/15 12:25
Analyst: MW

Extraction Method: EPA 3510C
Extraction Date: 05/31/15 02:41

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 07-08 Batch: WG789449-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	30		21-120
Phenol-d6	20		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	74		41-149

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 20:12
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 05/31/15 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG789477-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	98	30.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	53.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	35.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	98	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	46.
Hexachlorocyclopentadiene	ND		ug/kg	470	100
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	54.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	34.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	40.
Diethyl phthalate	ND		ug/kg	160	34.

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 20:12
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 05/31/15 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG789477-1					
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.
Biphenyl	ND		ug/kg	370	54.
4-Chloroaniline	ND		ug/kg	160	43.
2-Nitroaniline	ND		ug/kg	160	46.
3-Nitroaniline	ND		ug/kg	160	45.
4-Nitroaniline	ND		ug/kg	160	44.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	52.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
P-Chloro-M-Cresol	ND		ug/kg	160	47.
2-Chlorophenol	ND		ug/kg	160	49.
2,4-Dichlorophenol	ND		ug/kg	150	53.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	350	51.

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/31/15 20:12
Analyst: AS

Extraction Method: EPA 3546
Extraction Date: 05/31/15 12:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG789477-1					
4-Nitrophenol	ND		ug/kg	230	53.
2,4-Dinitrophenol	ND		ug/kg	780	220
4,6-Dinitro-o-cresol	ND		ug/kg	420	60.
Pentachlorophenol	ND		ug/kg	130	35.
Phenol	ND		ug/kg	160	48.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	53.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG789446-2 WG789446-3								
Acenaphthene	87		76		31-137	13		50
1,2,4-Trichlorobenzene	79		72		38-107	9		50
Hexachlorobenzene	92		79		40-140	15		50
Bis(2-chloroethyl)ether	80		72		40-140	11		50
2-Chloronaphthalene	89		79		40-140	12		50
1,2-Dichlorobenzene	74		70		40-140	6		50
1,3-Dichlorobenzene	70		68		40-140	3		50
1,4-Dichlorobenzene	70		68		28-104	3		50
3,3'-Dichlorobenzidine	108		83		40-140	26		50
2,4-Dinitrotoluene	**102**	Q	86		28-89	17		50
2,6-Dinitrotoluene	98		83		40-140	17		50
Fluoranthene	97		84		40-140	14		50
4-Chlorophenyl phenyl ether	89		78		40-140	13		50
4-Bromophenyl phenyl ether	93		80		40-140	15		50
Bis(2-chloroisopropyl)ether	82		75		40-140	9		50
Bis(2-chloroethoxy)methane	88		79		40-117	11		50
Hexachlorobutadiene	80		72		40-140	11		50
Hexachlorocyclopentadiene	107		99		40-140	8		50
Hexachloroethane	70		68		40-140	3		50
Isophorone	92		82		40-140	11		50
Naphthalene	83		77		40-140	8		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG789446-2 WG789446-3								
Nitrobenzene	83		76		40-140	9		50
NitrosoDiPhenylAmine(NDPA)/DPA	95		80		36-157	17		50
n-Nitrosodi-n-propylamine	90		80		32-121	12		50
Bis(2-Ethylhexyl)phthalate	109		93		40-140	16		50
Butyl benzyl phthalate	111		94		40-140	17		50
Di-n-butylphthalate	102		87		40-140	16		50
Di-n-octylphthalate	115		96		40-140	18		50
Diethyl phthalate	93		80		40-140	15		50
Dimethyl phthalate	93		80		40-140	15		50
Benzo(a)anthracene	94		79		40-140	17		50
Benzo(a)pyrene	99		86		40-140	14		50
Benzo(b)fluoranthene	94		82		40-140	14		50
Benzo(k)fluoranthene	91		78		40-140	15		50
Chrysene	89		77		40-140	14		50
Acenaphthylene	92		81		40-140	13		50
Anthracene	97		84		40-140	14		50
Benzo(ghi)perylene	94		81		40-140	15		50
Fluorene	92		79		40-140	15		50
Phenanthrene	89		78		40-140	13		50
Dibenzo(a,h)anthracene	98		83		40-140	17		50
Indeno(1,2,3-cd)Pyrene	77		68		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG789446-2 WG789446-3								
Pyrene	96		82		35-142	16		50
Biphenyl	88		78		54-104	12		50
4-Chloroaniline	97		84		40-140	14		50
2-Nitroaniline	103		87		47-134	17		50
3-Nitroaniline	79		66		26-129	18		50
4-Nitroaniline	97		82		41-125	17		50
Dibenzofuran	90		79		40-140	13		50
2-Methylnaphthalene	86		77		40-140	11		50
1,2,4,5-Tetrachlorobenzene	84		76		40-117	10		50
Acetophenone	84		76		14-144	10		50
2,4,6-Trichlorophenol	95		85		30-130	11		50
P-Chloro-M-Cresol	96		82		26-103	16		50
2-Chlorophenol	84		76		25-102	10		50
2,4-Dichlorophenol	91		81		30-130	12		50
2,4-Dimethylphenol	98		87		30-130	12		50
2-Nitrophenol	93		83		30-130	11		50
4-Nitrophenol	101		87		11-114	15		50
2,4-Dinitrophenol	77		62		4-130	22		50
4,6-Dinitro-o-cresol	101		84		10-130	18		50
Pentachlorophenol	107		90		17-109	17		50
Phenol	81		70		26-90	15		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,05-06 Batch: WG789446-2 WG789446-3								
2-Methylphenol	90		79		30-130.	13		50
3-Methylphenol/4-Methylphenol	92		82		30-130	11		50
2,4,5-Trichlorophenol	95		82		30-130	15		50
Benzoic Acid	29		22		10-66	27		50
Benzyl Alcohol	92		81		40-140	13		50
Carbazole	96		82		54-128	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	85		76		25-120
Phenol-d6	90		80		10-120
Nitrobenzene-d5	87		79		23-120
2-Fluorobiphenyl	92		82		30-120
2,4,6-Tribromophenol	102		87		10-136
4-Terphenyl-d14	101		84		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789448-2 WG789448-3								
1,2,4-Trichlorobenzene	64		65		39-98	2		30
Bis(2-chloroethyl)ether	76		77		40-140	1		30
1,2-Dichlorobenzene	64		64		40-140	0		30
1,3-Dichlorobenzene	61		61		40-140	0		30
1,4-Dichlorobenzene	62		61		36-97	2		30
3,3'-Dichlorobenzidine	90		93		40-140	3		30
2,4-Dinitrotoluene	93		96		24-96	3		30
2,6-Dinitrotoluene	93		96		40-140	3		30
4-Chlorophenyl phenyl ether	84		86		40-140	2		30
4-Bromophenyl phenyl ether	84		88		40-140	5		30
Bis(2-chloroisopropyl)ether	82		82		40-140	0		30
Bis(2-chloroethoxy)methane	81		83		40-140	2		30
Hexachlorocyclopentadiene	55		55		40-140	0		30
Isophorone	81		84		40-140	4		30
Nitrobenzene	79		79		40-140	0		30
NitrosoDiPhenylAmine(NDPA)/DPA	87		89		40-140	2		30
n-Nitrosodi-n-propylamine	83		84		29-132	1		30
Bis(2-Ethylhexyl)phthalate	99		100		40-140	1		30
Butyl benzyl phthalate	102		102		40-140	0		30
Di-n-butylphthalate	97		99		40-140	2		30
Di-n-octylphthalate	94		94		40-140	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789448-2 WG789448-3								
Diethyl phthalate	88		90		40-140	2		30
Dimethyl phthalate	90		92		40-140	2		30
Biphenyl	83		85		54-104	2		30
4-Chloroaniline	62		62		40-140	0		30
2-Nitroaniline	90		94		52-143	4		30
3-Nitroaniline	64		68		25-145	6		30
4-Nitroaniline	78		82		51-143	5		30
Dibenzofuran	86		89		40-140	3		30
1,2,4,5-Tetrachlorobenzene	79		80		2-134	1		30
Acetophenone	81		82		39-129	1		30
2,4,6-Trichlorophenol	85		89		30-130	5		30
P-Chloro-M-Cresol	79		83		23-97	5		30
2-Chlorophenol	66		67		27-123	2		30
2,4-Dichlorophenol	82		84		30-130	2		30
2,4-Dimethylphenol	73		70		30-130	4		30
2-Nitrophenol	77		80		30-130	4		30
4-Nitrophenol	41		43		10-80	5		30
2,4-Dinitrophenol	69		72		20-130	4		30
4,6-Dinitro-o-cresol	84		88		20-164	5		30
Phenol	29		30		12-110	3		30
2-Methylphenol	61		62		30-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07-08 Batch: WG789448-2 WG789448-3								
3-Methylphenol/4-Methylphenol	56		59		30-130	5		30
2,4,5-Trichlorophenol	87		91		30-130	4		30
Benzoic Acid	15		17		10-110	13		30
Benzyl Alcohol	57		58		15-110	2		30
Carbazole	94		95		55-144	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	40		41		21-120
Phenol-d6	29		31		10-120
Nitrobenzene-d5	83		85		23-120
2-Fluorobiphenyl	91		92		15-120
2,4,6-Tribromophenol	96		97		10-120
4-Terphenyl-d14	99		99		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG789449-2 WG789449-3								
Acenaphthene	62		68		37-111	9		40
2-Chloronaphthalene	61		67		40-140	9		40
Fluoranthene	68		73		40-140	7		40
Hexachlorobutadiene	54		59		40-140	9		40
Naphthalene	56		61		40-140	9		40
Benzo(a)anthracene	71		79		40-140	11		40
Benzo(a)pyrene	72		80		40-140	11		40
Benzo(b)fluoranthene	71		76		40-140	7		40
Benzo(k)fluoranthene	68		81		40-140	17		40
Chrysene	67		76		40-140	13		40
Acenaphthylene	64		71		40-140	10		40
Anthracene	68		75		40-140	10		40
Benzo(ghi)perylene	75		88		40-140	16		40
Fluorene	65		73		40-140	12		40
Phenanthrene	66		75		40-140	13		40
Dibenzo(a,h)anthracene	72		84		40-140	15		40
Indeno(1,2,3-cd)Pyrene	64		71		40-140	10		40
Pyrene	67		71		26-127	6		40
2-Methylnaphthalene	61		67		40-140	9		40
Pentachlorophenol	63		69		9-103	9		40
Hexachlorobenzene	70		78		40-140	11		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 07-08 Batch: WG789449-2 WG789449-3								
Hexachloroethane	53		57		40-140	7		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	29		33		21-120
Phenol-d6	20		23		10-120
Nitrobenzene-d5	69		77		23-120
2-Fluorobiphenyl	65		73		15-120
2,4,6-Tribromophenol	80		83		10-120
4-Terphenyl-d14	70		76		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG789477-2 WG789477-3								
Acenaphthene	75		77		31-137	3		50
1,2,4-Trichlorobenzene	71		71		38-107	0		50
Hexachlorobenzene	79		83		40-140	5		50
Bis(2-chloroethyl)ether	71		72		40-140	1		50
2-Chloronaphthalene	79		81		40-140	3		50
1,2-Dichlorobenzene	71		71		40-140	0		50
1,3-Dichlorobenzene	69		68		40-140	1		50
1,4-Dichlorobenzene	68		68		28-104	0		50
3,3'-Dichlorobenzidine	109		114		40-140	4		50
2,4-Dinitrotoluene	78		83		28-89	6		50
2,6-Dinitrotoluene	81		85		40-140	5		50
Fluoranthene	86		89		40-140	3		50
4-Chlorophenyl phenyl ether	78		80		40-140	3		50
4-Bromophenyl phenyl ether	80		82		40-140	2		50
Bis(2-chloroisopropyl)ether	74		74		40-140	0		50
Bis(2-chloroethoxy)methane	79		80		40-117	1		50
Hexachlorobutadiene	72		71		40-140	1		50
Hexachlorocyclopentadiene	53		60		40-140	12		50
Hexachloroethane	62		62		40-140	0		50
Isophorone	83		84		40-140	1		50
Naphthalene	75		75		40-140	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG789477-2 WG789477-3								
Nitrobenzene	74		74		40-140	0		50
NitrosoDiPhenylAmine(NDPA)/DPA	81		83		36-157	2		50
n-Nitrosodi-n-propylamine	78		80		32-121	3		50
Bis(2-Ethylhexyl)phthalate	84		84		40-140	0		50
Butyl benzyl phthalate	95		97		40-140	2		50
Di-n-butylphthalate	85		87		40-140	2		50
Di-n-octylphthalate	94		94		40-140	0		50
Diethyl phthalate	79		81		40-140	3		50
Dimethyl phthalate	79		81		40-140	3		50
Benzo(a)anthracene	79		81		40-140	3		50
Benzo(a)pyrene	83		84		40-140	1		50
Benzo(b)fluoranthene	80		80		40-140	0		50
Benzo(k)fluoranthene	74		74		40-140	0		50
Chrysene	74		76		40-140	3		50
Acenaphthylene	82		84		40-140	2		50
Anthracene	84		85		40-140	1		50
Benzo(ghi)perylene	80		84		40-140	5		50
Fluorene	82		83		40-140	1		50
Phenanthrene	77		78		40-140	1		50
Dibenzo(a,h)anthracene	83		85		40-140	2		50
Indeno(1,2,3-cd)Pyrene	81		84		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG789477-2 WG789477-3								
Pyrene	85		87		35-142	2		50
Biphenyl	78		79		54-104	1		50
4-Chloroaniline	78		77		40-140	1		50
2-Nitroaniline	92		94		47-134	2		50
3-Nitroaniline	83		86		26-129	4		50
4-Nitroaniline	88		89		41-125	1		50
Dibenzofuran	79		81		40-140	3		50
2-Methylnaphthalene	76		78		40-140	3		50
1,2,4,5-Tetrachlorobenzene	72		75		40-117	4		50
Acetophenone	77		77		14-144	0		50
2,4,6-Trichlorophenol	84		88		30-130	5		50
P-Chloro-M-Cresol	84		86		26-103	2		50
2-Chlorophenol	74		76		25-102	3		50
2,4-Dichlorophenol	80		81		30-130	1		50
2,4-Dimethylphenol	88		92		30-130	4		50
2-Nitrophenol	76		78		30-130	3		50
4-Nitrophenol	83		87		11-114	5		50
2,4-Dinitrophenol	24		33		4-130	32		50
4,6-Dinitro-o-cresol	26		38		10-130	38		50
Pentachlorophenol	99		104		17-109	5		50
Phenol	69		71		26-90	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG789477-2 WG789477-3								
2-Methylphenol	79		81		30-130.	3		50
3-Methylphenol/4-Methylphenol	82		83		30-130	1		50
2,4,5-Trichlorophenol	86		88		30-130	2		50
Benzoic Acid	48		54		10-66	12		50
Benzyl Alcohol	80		82		40-140	2		50
Carbazole	82		84		54-128	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		73		25-120
Phenol-d6	77		77		10-120
Nitrobenzene-d5	76		77		23-120
2-Fluorobiphenyl	77		79		30-120
2,4,6-Tribromophenol	83		87		10-136
4-Terphenyl-d14	81		85		18-120

PCBS

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-01	Date Collected:	05/30/15 14:40
Client ID:	EB07_10-12	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 19:17	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	77%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	42.1	3.33	1	A
Aroclor 1221	ND		ug/kg	42.1	3.88	1	A
Aroclor 1232	ND		ug/kg	42.1	4.94	1	A
Aroclor 1242	ND		ug/kg	42.1	5.15	1	A
Aroclor 1248	ND		ug/kg	42.1	3.55	1	A
Aroclor 1254	ND		ug/kg	42.1	3.46	1	A
Aroclor 1260	ND		ug/kg	42.1	3.21	1	A
Aroclor 1262	ND		ug/kg	42.1	2.09	1	A
Aroclor 1268	ND		ug/kg	42.1	6.11	1	A
PCBs, Total	ND		ug/kg	42.1	2.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	96		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 19:34	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	70%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	47.1	3.72	1	A
Aroclor 1221	ND		ug/kg	47.1	4.34	1	A
Aroclor 1232	ND		ug/kg	47.1	5.52	1	A
Aroclor 1242	ND		ug/kg	47.1	5.76	1	A
Aroclor 1248	ND		ug/kg	47.1	3.97	1	A
Aroclor 1254	ND		ug/kg	47.1	3.87	1	A
Aroclor 1260	ND		ug/kg	47.1	3.59	1	A
Aroclor 1262	ND		ug/kg	47.1	2.33	1	A
Aroclor 1268	ND		ug/kg	47.1	6.82	1	A
PCBs, Total	ND		ug/kg	47.1	2.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-03	Date Collected:	05/30/15 10:35
Client ID:	EB10_1-2	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 19:50	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	90%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	2.86	1	A
Aroclor 1221	ND		ug/kg	36.2	3.34	1	A
Aroclor 1232	ND		ug/kg	36.2	4.24	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	3.05	1	A
Aroclor 1254	ND		ug/kg	36.2	2.97	1	A
Aroclor 1260	ND		ug/kg	36.2	2.76	1	A
Aroclor 1262	ND		ug/kg	36.2	1.79	1	A
Aroclor 1268	ND		ug/kg	36.2	5.24	1	A
PCBs, Total	ND		ug/kg	36.2	1.79	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	105		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 20:07	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	84%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.8	3.06	1	A
Aroclor 1221	ND		ug/kg	38.8	3.58	1	A
Aroclor 1232	ND		ug/kg	38.8	4.55	1	A
Aroclor 1242	ND		ug/kg	38.8	4.75	1	A
Aroclor 1248	ND		ug/kg	38.8	3.27	1	A
Aroclor 1254	ND		ug/kg	38.8	3.19	1	A
Aroclor 1260	ND		ug/kg	38.8	2.96	1	A
Aroclor 1262	ND		ug/kg	38.8	1.92	1	A
Aroclor 1268	ND		ug/kg	38.8	5.62	1	A
PCBs, Total	ND		ug/kg	38.8	1.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	34		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-05	Date Collected:	05/30/15 12:00
Client ID:	EB13_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 20:23	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	90%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	2.88	1	A
Aroclor 1221	ND		ug/kg	36.4	3.36	1	A
Aroclor 1232	ND		ug/kg	36.4	4.27	1	A
Aroclor 1242	ND		ug/kg	36.4	4.46	1	A
Aroclor 1248	ND		ug/kg	36.4	3.08	1	A
Aroclor 1254	ND		ug/kg	36.4	3.00	1	A
Aroclor 1260	ND		ug/kg	36.4	2.78	1	A
Aroclor 1262	ND		ug/kg	36.4	1.81	1	A
Aroclor 1268	ND		ug/kg	36.4	5.28	1	A
PCBs, Total	ND		ug/kg	36.4	1.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-06	Date Collected:	05/30/15 00:00
Client ID:	DUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	05/30/15 23:54
Analytical Date:	05/31/15 20:40	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
Percent Solids:	75%	Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.0	3.48	1	A
Aroclor 1221	ND		ug/kg	44.0	4.06	1	A
Aroclor 1232	ND		ug/kg	44.0	5.16	1	A
Aroclor 1242	ND		ug/kg	44.0	5.39	1	A
Aroclor 1248	ND		ug/kg	44.0	3.71	1	A
Aroclor 1254	ND		ug/kg	44.0	3.62	1	A
Aroclor 1260	ND		ug/kg	44.0	3.35	1	A
Aroclor 1262	ND		ug/kg	44.0	2.18	1	A
Aroclor 1268	ND		ug/kg	44.0	6.38	1	A
PCBs, Total	ND		ug/kg	44.0	2.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-07	Date Collected:	05/30/15 16:35
Client ID:	MW11_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	05/31/15 02:39
Analytical Date:	05/31/15 17:55	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
		Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	49		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	45		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-08	Date Collected:	05/30/15 00:00
Client ID:	GWDUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	05/31/15 02:39
Analytical Date:	05/31/15 18:11	Cleanup Method:	EPA 3665A
Analyst:	JT	Cleanup Date:	05/31/15
		Cleanup Method:	EPA 3660B
		Cleanup Date:	05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A
PCBs, Total	ND		ug/l	0.083	0.029	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	48		30-150	A

Project Name: 130 ST. FELIX STREET

Project Number: 170366001

Lab Number: L1511932

Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/15 18:28
Analyst: JT

Extraction Method: EPA 3546
Extraction Date: 05/30/15 23:54
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/15
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-06 Batch: WG789439-1						
Aroclor 1016	ND		ug/kg	31.7	2.50	A
Aroclor 1221	ND		ug/kg	31.7	2.92	A
Aroclor 1232	ND		ug/kg	31.7	3.71	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	2.67	A
Aroclor 1254	ND		ug/kg	31.7	2.60	A
Aroclor 1260	ND		ug/kg	31.7	2.41	A
Aroclor 1262	ND		ug/kg	31.7	1.57	A
Aroclor 1268	ND		ug/kg	31.7	4.59	A
PCBs, Total	ND		ug/kg	31.7	1.57	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: 130 ST. FELIX STREET

Project Number: 170366001

Lab Number: L1511932

Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/31/15 17:05
Analyst: JT

Extraction Method: EPA 3510C
Extraction Date: 05/31/15 02:39
Cleanup Method: EPA 3665A
Cleanup Date: 05/31/15
Cleanup Method: EPA 3660B
Cleanup Date: 05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07-08 Batch: WG789450-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A
PCBs, Total	ND		ug/l	0.083	0.029	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	72		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG789439-2 WG789439-3									
Aroclor 1016	78		80		40-140	3		50	A
Aroclor 1260	83		86		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		88		30-150	A
Decachlorobiphenyl	101		102		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		97		30-150	B
Decachlorobiphenyl	112		115		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 130 ST. FELIX STREET

Project Number: 170366001

Lab Number: L1511932

Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07-08 Batch: WG789450-2 WG789450-3									
Aroclor 1016	80		83		40-140	3		50	A
Aroclor 1260	86		92		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		79		30-150	B
Decachlorobiphenyl	86		88		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		72		30-150	A
Decachlorobiphenyl	78		80		30-150	A

PESTICIDES

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-01	Date Collected:	05/30/15 14:40
Client ID:	EB07_10-12	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 12:37	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	77%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.06	0.403	1	A
Lindane	ND		ug/kg	0.858	0.384	1	A
Alpha-BHC	ND		ug/kg	0.858	0.244	1	A
Beta-BHC	ND		ug/kg	2.06	0.781	1	A
Heptachlor	ND		ug/kg	1.03	0.462	1	A
Aldrin	ND		ug/kg	2.06	0.725	1	A
Heptachlor epoxide	ND		ug/kg	3.86	1.16	1	A
Endrin	ND		ug/kg	0.858	0.352	1	A
Endrin ketone	ND		ug/kg	2.06	0.530	1	A
Dieldrin	ND		ug/kg	1.29	0.644	1	A
4,4'-DDE	ND		ug/kg	2.06	0.476	1	A
4,4'-DDD	ND		ug/kg	2.06	0.735	1	A
4,4'-DDT	ND		ug/kg	3.86	1.66	1	A
Endosulfan I	ND		ug/kg	2.06	0.487	1	A
Endosulfan II	ND		ug/kg	2.06	0.688	1	A
Endosulfan sulfate	ND		ug/kg	0.858	0.409	1	A
Methoxychlor	ND		ug/kg	3.86	1.20	1	A
Toxaphene	ND		ug/kg	38.6	10.8	1	A
cis-Chlordane	ND		ug/kg	2.58	0.718	1	A
trans-Chlordane	ND		ug/kg	2.58	0.680	1	A
Chlordane	ND		ug/kg	16.7	6.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-01	Date Collected:	05/30/15 14:40
Client ID:	EB07_10-12	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	05/31/15 20:01		
Analyst:	SS		
Percent Solids:	77%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	214	26.0	1	A
2,4,5-T	ND		ug/kg	214	13.3	1	A
2,4,5-TP (Silvex)	ND		ug/kg	214	11.8	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	60		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 12:53	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	70%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.25	0.440	1	A
Lindane	ND		ug/kg	0.937	0.419	1	A
Alpha-BHC	ND		ug/kg	0.937	0.266	1	A
Beta-BHC	ND		ug/kg	2.25	0.853	1	A
Heptachlor	ND		ug/kg	1.12	0.504	1	A
Aldrin	ND		ug/kg	2.25	0.792	1	A
Heptachlor epoxide	ND		ug/kg	4.22	1.26	1	A
Endrin	ND		ug/kg	0.937	0.384	1	A
Endrin ketone	ND		ug/kg	2.25	0.579	1	A
Dieldrin	ND		ug/kg	1.40	0.703	1	A
4,4'-DDE	ND		ug/kg	2.25	0.520	1	A
4,4'-DDD	ND		ug/kg	2.25	0.802	1	A
4,4'-DDT	ND		ug/kg	4.22	1.81	1	A
Endosulfan I	ND		ug/kg	2.25	0.531	1	A
Endosulfan II	ND		ug/kg	2.25	0.751	1	A
Endosulfan sulfate	ND		ug/kg	0.937	0.446	1	A
Methoxychlor	ND		ug/kg	4.22	1.31	1	A
Toxaphene	ND		ug/kg	42.2	11.8	1	A
cis-Chlordane	ND		ug/kg	2.81	0.783	1	A
trans-Chlordane	ND		ug/kg	2.81	0.742	1	A
Chlordane	ND		ug/kg	18.3	7.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	124		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-02	Date Collected:	05/30/15 13:25
Client ID:	EB09_4.5-5.5	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	05/31/15 20:21		
Analyst:	SS		
Percent Solids:	70%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	233	28.3	1	A
2,4,5-T	ND		ug/kg	233	14.5	1	A
2,4,5-TP (Silvex)	ND		ug/kg	233	12.8	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	78		30-150	A
DCAA	73		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-03	Date Collected:	05/30/15 10:35
Client ID:	EB10_1-2	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 13:08	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.985	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.09	0.547	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.19	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.2	5.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-03	Date Collected:	05/30/15 10:35
Client ID:	EB10_1-2	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	05/31/15 20:40		
Analyst:	SS		
Percent Solids:	90%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	22.4	1	A
2,4,5-T	ND		ug/kg	184	11.5	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	10.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	69		30-150	A
DCAA	64		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 13:24	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	84%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.368	1	A
Lindane	ND		ug/kg	0.782	0.350	1	A
Alpha-BHC	ND		ug/kg	0.782	0.222	1	A
Beta-BHC	ND		ug/kg	1.88	0.712	1	A
Heptachlor	ND		ug/kg	0.938	0.421	1	A
Aldrin	ND		ug/kg	1.88	0.661	1	A
Heptachlor epoxide	ND		ug/kg	3.52	1.06	1	A
Endrin	ND		ug/kg	0.782	0.321	1	A
Endrin ketone	ND		ug/kg	1.88	0.483	1	A
Dieldrin	ND		ug/kg	1.17	0.586	1	A
4,4'-DDE	ND		ug/kg	1.88	0.434	1	A
4,4'-DDD	ND		ug/kg	1.88	0.669	1	A
4,4'-DDT	ND		ug/kg	3.52	1.51	1	A
Endosulfan I	ND		ug/kg	1.88	0.443	1	A
Endosulfan II	ND		ug/kg	1.88	0.627	1	A
Endosulfan sulfate	ND		ug/kg	0.782	0.372	1	A
Methoxychlor	ND		ug/kg	3.52	1.09	1	A
Toxaphene	ND		ug/kg	35.2	9.85	1	A
cis-Chlordane	ND		ug/kg	2.34	0.654	1	A
trans-Chlordane	ND		ug/kg	2.34	0.619	1	A
Chlordane	ND		ug/kg	15.2	6.22	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	**764**	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	136		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-04	Date Collected:	05/30/15 12:40
Client ID:	EB12_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	05/31/15 21:00		
Analyst:	SS		
Percent Solids:	84%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	196	23.9	1	A
2,4,5-T	ND		ug/kg	196	12.2	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	10.8	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	56		30-150	A
DCAA	53		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-05	Date Collected:	05/30/15 12:00
Client ID:	EB13_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 13:39	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	90%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.739	0.330	1	A
Alpha-BHC	ND		ug/kg	0.739	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.672	1	A
Heptachlor	ND		ug/kg	0.887	0.398	1	A
Aldrin	ND		ug/kg	1.77	0.624	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.998	1	A
Endrin	ND		ug/kg	0.739	0.303	1	A
Endrin ketone	ND		ug/kg	1.77	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.554	1	A
4,4'-DDE	ND		ug/kg	1.77	0.410	1	A
4,4'-DDD	ND		ug/kg	1.77	0.632	1	A
4,4'-DDT	ND		ug/kg	3.32	1.43	1	A
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.739	0.352	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.31	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.585	1	A
Chlordane	ND		ug/kg	14.4	5.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	124		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	49		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-05	Date Collected:	05/30/15 12:00
Client ID:	EB13_7-9	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	06/01/15 14:38		
Analyst:	SS		
Percent Solids:	90%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	22.3	1	A
2,4,5-T	ND		ug/kg	184	11.4	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	10.1	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	58		30-150	B

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-06	Date Collected:	05/30/15 00:00
Client ID:	DUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	05/31/15 00:50
Analytical Date:	06/01/15 13:55	Cleanup Method:	EPA 3620B
Analyst:	GP	Cleanup Date:	05/31/15
Percent Solids:	75%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.12	0.414	1	A
Lindane	ND		ug/kg	0.882	0.394	1	A
Alpha-BHC	ND		ug/kg	0.882	0.250	1	A
Beta-BHC	ND		ug/kg	2.12	0.802	1	A
Heptachlor	ND		ug/kg	1.06	0.474	1	A
Aldrin	ND		ug/kg	2.12	0.745	1	A
Heptachlor epoxide	ND		ug/kg	3.97	1.19	1	A
Endrin	ND		ug/kg	0.882	0.362	1	A
Endrin ketone	ND		ug/kg	2.12	0.545	1	A
Dieldrin	ND		ug/kg	1.32	0.661	1	A
4,4'-DDE	ND		ug/kg	2.12	0.489	1	A
4,4'-DDD	ND		ug/kg	2.12	0.755	1	A
4,4'-DDT	ND		ug/kg	3.97	1.70	1	A
Endosulfan I	ND		ug/kg	2.12	0.500	1	A
Endosulfan II	ND		ug/kg	2.12	0.707	1	A
Endosulfan sulfate	ND		ug/kg	0.882	0.420	1	A
Methoxychlor	ND		ug/kg	3.97	1.23	1	A
Toxaphene	ND		ug/kg	39.7	11.1	1	A
cis-Chlordane	ND		ug/kg	2.64	0.737	1	A
trans-Chlordane	ND		ug/kg	2.64	0.698	1	A
Chlordane	ND		ug/kg	17.2	7.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	50		30-150	A

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-06	Date Collected:	05/30/15 00:00
Client ID:	DUP01_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 8151A
Analytical Method:	1,8151A	Extraction Date:	05/30/15 22:21
Analytical Date:	05/31/15 21:39		
Analyst:	SS		
Percent Solids:	75%		
Methylation Date:	05/31/15 06:26		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	221	26.9	1	A
2,4,5-T	ND		ug/kg	221	13.8	1	A
2,4,5-TP (Silvex)	ND		ug/kg	221	12.2	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	77		30-150	B

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/31/15 19:03
Analyst: SS

Extraction Method: EPA 8151A
Extraction Date: 05/30/15 22:21

Methylation Date: 05/31/15 06:26

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-06 Batch: WG789434-1						
2,4-D	ND		ug/kg	162	19.8	A
2,4,5-T	ND		ug/kg	162	10.1	A
2,4,5-TP (Silvex)	ND		ug/kg	162	8.97	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	58		30-150	B

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/01/15 11:51
Analyst: GP

Extraction Method: EPA 3546
Extraction Date: 05/31/15 00:50
Cleanup Method: EPA 3620B
Cleanup Date: 05/31/15

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-06 Batch: WG789445-1						
Delta-BHC	ND		ug/kg	1.52	0.299	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.537	A
Heptachlor epoxide	ND		ug/kg	2.86	0.858	A
Endrin	ND		ug/kg	0.635	0.260	A
Endrin ketone	ND		ug/kg	1.52	0.393	A
Dieldrin	ND		ug/kg	0.953	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.353	A
4,4'-DDD	ND		ug/kg	1.52	0.544	A
4,4'-DDT	ND		ug/kg	2.86	1.23	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.510	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.889	A
Toxaphene	13.2	J	ug/kg	28.6	8.00	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A
trans-Chlordane	ND		ug/kg	1.90	0.503	A
Chlordane	ND		ug/kg	12.4	5.05	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	77		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 130 ST. FELIX STREET

Project Number: 170366001

Lab Number: L1511932

Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG789434-2 WG789434-3									
2,4-D	69		73		30-150	6		30	A
2,4,5-T	69		67		30-150	3		30	A
2,4,5-TP (Silvex)	72		70		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	69		67		30-150	A
DCAA	64		63		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG789445-2 WG789445-3									
Delta-BHC	68		73		30-150	7		30	A
Lindane	75		78		30-150	4		30	A
Alpha-BHC	77		80		30-150	4		30	A
Beta-BHC	81		99		30-150	20		30	A
Heptachlor	83		86		30-150	4		30	A
Aldrin	85		85		30-150	0		30	A
Heptachlor epoxide	76		77		30-150	1		30	A
Endrin	90		94		30-150	4		30	A
Endrin ketone	68		70		30-150	3		30	A
Dieldrin	87		87		30-150	0		30	A
4,4'-DDE	90		88		30-150	2		30	A
4,4'-DDD	84		86		30-150	2		30	A
4,4'-DDT	92		99		30-150	7		30	A
Endosulfan I	81		81		30-150	0		30	A
Endosulfan II	82		83		30-150	1		30	A
Endosulfan sulfate	68		70		30-150	3		30	A
Methoxychlor	82		83		30-150	1		30	A
cis-Chlordane	78		78		30-150	0		30	A
trans-Chlordane	81		82		30-150	1		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-06 Batch: WG789445-2 WG789445-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		74		30-150	B
Decachlorobiphenyl	87		79		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		84		30-150	A
Decachlorobiphenyl	66		72		30-150	A

METALS

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01 Date Collected: 05/30/15 14:40

Client ID: EB07_10-12 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7100		mg/kg	10	2.0	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	5.1	0.81	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Arsenic, Total	1.1		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Barium, Total	53		mg/kg	1.0	0.30	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Beryllium, Total	0.31	J	mg/kg	0.51	0.10	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	1.0	0.07	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Calcium, Total	1300		mg/kg	10	3.0	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Chromium, Total	18		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Cobalt, Total	6.6		mg/kg	2.0	0.51	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Copper, Total	16		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Iron, Total	15000		mg/kg	5.1	2.0	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Lead, Total	ND		mg/kg	5.1	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Magnesium, Total	2400		mg/kg	10	1.0	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Manganese, Total	370		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.10	0.02	1	05/31/15 12:31	05/31/15 15:15	EPA 7471B	1,7471B	DB
Nickel, Total	15		mg/kg	2.5	0.40	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Potassium, Total	1300		mg/kg	250	40.	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	2.0	0.30	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Sodium, Total	270		mg/kg	200	30.	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	2.0	0.40	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Vanadium, Total	24		mg/kg	1.0	0.10	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH
Zinc, Total	34		mg/kg	5.1	0.71	2	06/01/15 09:34	06/01/15 12:32	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02 Date Collected: 05/30/15 13:25

Client ID: EB09_4.5-5.5 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6200		mg/kg	11	2.2	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Antimony, Total	2.3	J	mg/kg	5.6	0.89	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Arsenic, Total	12		mg/kg	1.1	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Barium, Total	860		mg/kg	1.1	0.34	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Beryllium, Total	0.26	J	mg/kg	0.56	0.11	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Cadmium, Total	0.95	J	mg/kg	1.1	0.08	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Calcium, Total	45000		mg/kg	11	3.4	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Chromium, Total	24		mg/kg	1.1	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Cobalt, Total	4.7		mg/kg	2.2	0.56	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Copper, Total	42		mg/kg	1.1	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Iron, Total	15000		mg/kg	5.6	2.2	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Lead, Total	2800		mg/kg	5.6	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Magnesium, Total	4100		mg/kg	11	1.1	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Manganese, Total	390		mg/kg	1.1	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Mercury, Total	0.90		mg/kg	0.09	0.02	1	05/31/15 12:31	05/31/15 15:31	EPA 7471B	1,7471B	DB
Nickel, Total	16		mg/kg	2.8	0.45	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Potassium, Total	920		mg/kg	280	45.	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Selenium, Total	0.75	J	mg/kg	2.2	0.34	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Silver, Total	0.72	J	mg/kg	1.1	0.22	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Sodium, Total	120	J	mg/kg	220	34.	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	2.2	0.45	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Vanadium, Total	22		mg/kg	1.1	0.11	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH
Zinc, Total	1200		mg/kg	5.6	0.78	2	06/01/15 09:34	06/01/15 13:12	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03 Date Collected: 05/30/15 10:35

Client ID: EB10_1-2 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6100		mg/kg	8.6	1.7	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Antimony, Total	1.6	J	mg/kg	4.3	0.69	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Arsenic, Total	16		mg/kg	0.86	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Barium, Total	370		mg/kg	0.86	0.26	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Beryllium, Total	0.28	J	mg/kg	0.43	0.09	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Cadmium, Total	0.10	J	mg/kg	0.86	0.06	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Calcium, Total	26000		mg/kg	8.6	2.6	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Chromium, Total	16		mg/kg	0.86	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Cobalt, Total	5.5		mg/kg	1.7	0.43	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Copper, Total	28		mg/kg	0.86	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Iron, Total	13000		mg/kg	4.3	1.7	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Lead, Total	620		mg/kg	4.3	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Magnesium, Total	2700		mg/kg	8.6	0.86	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Manganese, Total	250		mg/kg	0.86	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Mercury, Total	0.25		mg/kg	0.08	0.02	1	05/31/15 12:31	05/31/15 15:33	EPA 7471B	1,7471B	DB
Nickel, Total	13		mg/kg	2.2	0.34	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Potassium, Total	1300		mg/kg	220	34.	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Selenium, Total	0.40	J	mg/kg	1.7	0.26	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.86	0.17	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Sodium, Total	100	J	mg/kg	170	26.	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Vanadium, Total	22		mg/kg	0.86	0.09	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH
Zinc, Total	510		mg/kg	4.3	0.60	2	06/01/15 09:34	06/01/15 13:16	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04 Date Collected: 05/30/15 12:40

Client ID: EB12_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5800		mg/kg	9.0	1.8	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Antimony, Total	1.1	J	mg/kg	4.5	0.72	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Arsenic, Total	8.6		mg/kg	0.90	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Barium, Total	720		mg/kg	0.90	0.27	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Beryllium, Total	0.24	J	mg/kg	0.45	0.09	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Cadmium, Total	0.93		mg/kg	0.90	0.06	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Calcium, Total	22000		mg/kg	9.0	2.7	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Chromium, Total	32		mg/kg	0.90	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Cobalt, Total	4.7		mg/kg	1.8	0.45	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Copper, Total	64		mg/kg	0.90	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Iron, Total	12000		mg/kg	4.5	1.8	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Lead, Total	2000		mg/kg	4.5	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Magnesium, Total	4600		mg/kg	9.0	0.90	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Manganese, Total	260		mg/kg	0.90	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Mercury, Total	1.7		mg/kg	0.09	0.02	1	05/31/15 12:31	05/31/15 15:35	EPA 7471B	1,7471B	DB
Nickel, Total	20		mg/kg	2.3	0.36	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Potassium, Total	1000		mg/kg	230	36.	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Selenium, Total	1.3	J	mg/kg	1.8	0.27	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Silver, Total	0.21	J	mg/kg	0.90	0.18	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Sodium, Total	220		mg/kg	180	27.	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.8	0.36	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Vanadium, Total	32		mg/kg	0.90	0.09	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH
Zinc, Total	620		mg/kg	4.5	0.63	2	06/01/15 09:34	06/01/15 13:20	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05 Date Collected: 05/30/15 12:00

Client ID: EB13_7-9 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	7800		mg/kg	8.5	1.7	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	4.2	0.68	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Arsenic, Total	4.4		mg/kg	0.85	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Barium, Total	140		mg/kg	0.85	0.25	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Beryllium, Total	0.30	J	mg/kg	0.42	0.09	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.85	0.06	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Calcium, Total	14000		mg/kg	8.5	2.5	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Chromium, Total	17		mg/kg	0.85	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Cobalt, Total	5.6		mg/kg	1.7	0.42	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Copper, Total	20		mg/kg	0.85	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Iron, Total	14000		mg/kg	4.2	1.7	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Lead, Total	130		mg/kg	4.2	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Magnesium, Total	2800		mg/kg	8.5	0.85	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Manganese, Total	270		mg/kg	0.85	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Mercury, Total	0.42		mg/kg	0.07	0.02	1	05/31/15 12:31	05/31/15 15:36	EPA 7471B	1,7471B	DB
Nickel, Total	13		mg/kg	2.1	0.34	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Potassium, Total	1300		mg/kg	210	34.	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Selenium, Total	0.53	J	mg/kg	1.7	0.25	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	0.85	0.17	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Sodium, Total	160	J	mg/kg	170	25.	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	1.7	0.34	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Vanadium, Total	25		mg/kg	0.85	0.09	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH
Zinc, Total	140		mg/kg	4.2	0.59	2	06/01/15 09:34	06/01/15 13:24	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06 Date Collected: 05/30/15 00:00

Client ID: DUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	9800		mg/kg	10	2.0	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Antimony, Total	ND		mg/kg	5.1	0.81	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Arsenic, Total	1.2		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Barium, Total	73		mg/kg	1.0	0.30	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Beryllium, Total	0.42	J	mg/kg	0.51	0.10	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Cadmium, Total	ND		mg/kg	1.0	0.07	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Calcium, Total	1700		mg/kg	10	3.0	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Chromium, Total	25		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Cobalt, Total	8.6		mg/kg	2.0	0.51	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Copper, Total	21		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Iron, Total	20000		mg/kg	5.1	2.0	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Lead, Total	ND		mg/kg	5.1	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Magnesium, Total	3200		mg/kg	10	1.0	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Manganese, Total	380		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Mercury, Total	ND		mg/kg	0.09	0.02	1	05/31/15 12:31	05/31/15 15:38	EPA 7471B	1,7471B	DB
Nickel, Total	16		mg/kg	2.5	0.40	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Potassium, Total	2000		mg/kg	250	40.	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Selenium, Total	ND		mg/kg	2.0	0.30	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Silver, Total	ND		mg/kg	1.0	0.20	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Sodium, Total	450		mg/kg	200	30.	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Thallium, Total	ND		mg/kg	2.0	0.40	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Vanadium, Total	33		mg/kg	1.0	0.10	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH
Zinc, Total	50		mg/kg	5.1	0.71	2	06/01/15 09:34	06/01/15 13:27	EPA 3050B	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	1.02		mg/l	0.200	0.034	20	06/01/15 11:26	06/01/15 13:29	EPA 3005A	1,6020A	BM
Antimony, Total	0.0015	J	mg/l	0.0020	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Arsenic, Total	0.0010		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Barium, Total	0.1258		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.0005	0.0002	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Cadmium, Total	0.0001	J	mg/l	0.0002	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Calcium, Total	67.0		mg/l	2.00	0.640	20	06/01/15 11:26	06/01/15 13:29	EPA 3005A	1,6020A	BM
Chromium, Total	0.0627		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Cobalt, Total	0.0021		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Copper, Total	0.0073		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Iron, Total	3.09		mg/l	0.050	0.012	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Lead, Total	0.0022		mg/l	0.0010	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Magnesium, Total	29.3		mg/l	0.070	0.022	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Manganese, Total	0.1606		mg/l	0.0005	0.0003	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/01/15 08:59	06/01/15 12:15	EPA 7470A	1,7470A	DB
Nickel, Total	0.0392		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Potassium, Total	5.04		mg/l	0.150	0.019	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Selenium, Total	0.001	J	mg/l	0.005	0.001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Silver, Total	0.0001	J	mg/l	0.0004	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Sodium, Total	51.6		mg/l	4.00	0.322	20	06/01/15 11:26	06/01/15 13:29	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Vanadium, Total	0.0033	J	mg/l	0.0050	0.0006	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Zinc, Total	0.1238		mg/l	0.0100	0.0026	1	06/01/15 11:26	06/01/15 13:25	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.042		mg/l	0.010	0.002	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Antimony, Dissolved	0.0016	J	mg/l	0.0020	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.0005	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Barium, Dissolved	0.1042		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.0005	0.0002	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-07 Date Collected: 05/30/15 16:35

Client ID: MW11_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	69.3		mg/l	2.00	0.640	20	06/01/15 12:35	06/01/15 15:47	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.0041		mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Copper, Dissolved	0.0017		mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Iron, Dissolved	0.058		mg/l	0.050	0.012	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.0010	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	26.2		mg/l	0.070	0.022	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Manganese, Dissolved	0.0669		mg/l	0.0005	0.0003	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/01/15 09:03	06/01/15 12:28	EPA 7470A	1,7470A	DB
Nickel, Dissolved	0.0075		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4.49		mg/l	0.150	0.019	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.005	0.001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Silver, Dissolved	0.0002	J	mg/l	0.0004	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Sodium, Dissolved	62.8		mg/l	4.00	0.322	20	06/01/15 12:35	06/01/15 15:47	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.0050	0.0006	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM
Zinc, Dissolved	0.0079	J	mg/l	0.0100	0.0026	1	06/01/15 12:35	06/01/15 15:44	EPA 3005A	1,6020A	BM

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.952		mg/l	0.200	0.034	20	06/01/15 11:26	06/01/15 13:35	EPA 3005A	1,6020A	BM
Antimony, Total	0.0008	J	mg/l	0.0020	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Arsenic, Total	0.001		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Barium, Total	0.1143		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.0005	0.0002	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Calcium, Total	53.1		mg/l	2.00	0.640	20	06/01/15 11:26	06/01/15 13:35	EPA 3005A	1,6020A	BM
Chromium, Total	0.0411		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Cobalt, Total	0.0014		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Copper, Total	0.0061		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Iron, Total	2.42		mg/l	0.050	0.012	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Lead, Total	0.0017		mg/l	0.0010	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Magnesium, Total	24.3		mg/l	0.070	0.022	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Manganese, Total	0.1300		mg/l	0.0005	0.0003	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/01/15 08:59	06/01/15 12:22	EPA 7470A	1,7470A	DB
Nickel, Total	0.0236		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Potassium, Total	4.50		mg/l	0.150	0.019	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Selenium, Total	0.001	J	mg/l	0.005	0.001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Silver, Total	0.0002	J	mg/l	0.0004	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Sodium, Total	46.6		mg/l	4.00	0.322	20	06/01/15 11:26	06/01/15 13:35	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Vanadium, Total	0.0023	J	mg/l	0.0050	0.0006	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Zinc, Total	0.1436		mg/l	0.0100	0.0026	1	06/01/15 11:26	06/01/15 13:32	EPA 3005A	1,6020A	BM
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.022		mg/l	0.010	0.002	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Antimony, Dissolved	0.0009	J	mg/l	0.0020	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Arsenic, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Barium, Dissolved	0.1019		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.0005	0.0002	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-08 Date Collected: 05/30/15 00:00

Client ID: GWDUP01_053015 Date Received: 05/30/15

Sample Location: 130 ST. FELIX STREET, BROOKLYN Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	65.9		mg/l	2.00	0.640	20	06/01/15 12:35	06/01/15 15:59	EPA 3005A	1,6020A	BM
Chromium, Dissolved	0.0017		mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Cobalt, Dissolved	0.0003	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Copper, Dissolved	0.0059		mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Iron, Dissolved	0.037	J	mg/l	0.050	0.012	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Lead, Dissolved	0.0001	J	mg/l	0.0010	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Magnesium, Dissolved	23.8		mg/l	0.070	0.022	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Manganese, Dissolved	0.0604		mg/l	0.0005	0.0003	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/01/15 09:03	06/01/15 12:39	EPA 7470A	1,7470A	DB
Nickel, Dissolved	0.0042		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Potassium, Dissolved	4.24		mg/l	0.150	0.019	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.005	0.001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.0004	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Sodium, Dissolved	54.2		mg/l	4.00	0.322	20	06/01/15 12:35	06/01/15 15:59	EPA 3005A	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.0050	0.0006	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM
Zinc, Dissolved	0.0058	J	mg/l	0.0100	0.0026	1	06/01/15 12:35	06/01/15 15:56	EPA 3005A	1,6020A	BM

Project Name:	130 ST. FELIX STREET	**Lab Number:**	L1511932
Project Number:	170366001	**Report Date:**	06/01/15

SAMPLE RESULTS

Lab ID:	L1511932-09	Date Collected:	05/30/15 15:50
Client ID:	DRUM_053015	Date Received:	05/30/15
Sample Location:	130 ST. FELIX STREET, BROOKLYN	Field Prep:	Not Specified
Matrix:	Soil	TCLP/SPLP Ext. Date:	05/30/15 23:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab											
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Barium, TCLP	0.73		mg/l	0.50	0.03	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Chromium, TCLP	0.08	J	mg/l	0.20	0.02	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Lead, TCLP	0.03	J	mg/l	0.50	0.02	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/01/15 09:08	06/01/15 12:59	EPA 7470A	1,7470A	DB
Selenium, TCLP	ND		mg/l	0.50	0.03	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH
Silver, TCLP	ND		mg/l	0.10	0.02	1	06/01/15 14:28	06/01/15 15:51	EPA 3015	1,6010C	JH

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG789474-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	05/31/15 12:31	05/31/15 15:11	1,7471B	DB

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG789545-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/01/15 08:59	06/01/15 12:11	1,7470A	DB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 07-08 Batch: WG789546-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/01/15 09:03	06/01/15 12:24	1,7470A	DB

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 09 Batch: WG789551-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	06/01/15 09:08	06/01/15 12:56	1,7470A	DB

Prep Information

Digestion Method: EPA 7470A

TCLP/SPLP Extraction Date: 05/30/15 23:58

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG789581-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Antimony, Total	ND		mg/kg	2.0	0.32	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Arsenic, Total	ND		mg/kg	0.40	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Barium, Total	ND		mg/kg	0.40	0.12	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Beryllium, Total	ND		mg/kg	0.20	0.04	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Cadmium, Total	ND		mg/kg	0.40	0.03	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Calcium, Total	ND		mg/kg	4.0	1.2	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Chromium, Total	ND		mg/kg	0.40	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Cobalt, Total	ND		mg/kg	0.80	0.20	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Copper, Total	ND		mg/kg	0.40	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Iron, Total	ND		mg/kg	2.0	0.80	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Lead, Total	ND		mg/kg	2.0	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Magnesium, Total	ND		mg/kg	4.0	0.40	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Manganese, Total	ND		mg/kg	0.40	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Nickel, Total	ND		mg/kg	1.0	0.16	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Potassium, Total	ND		mg/kg	100	16.	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Selenium, Total	ND		mg/kg	0.80	0.12	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Silver, Total	ND		mg/kg	0.40	0.08	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Sodium, Total	ND		mg/kg	80	12.	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Thallium, Total	ND		mg/kg	0.80	0.16	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Vanadium, Total	ND		mg/kg	0.40	0.04	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH
Zinc, Total	ND		mg/kg	2.0	0.28	1	06/01/15 09:34	06/01/15 12:24	1,6010C	JH

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 07-08 Batch: WG789582-1										
Aluminum, Dissolved	0.003	J	mg/l	0.010	0.002	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Antimony, Dissolved	0.0007	J	mg/l	0.0020	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Barium, Dissolved	0.0001	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Beryllium, Dissolved	ND		mg/l	0.0005	0.0002	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.0002	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Calcium, Dissolved	ND		mg/l	0.100	0.032	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Copper, Dissolved	ND		mg/l	0.0010	0.0003	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Iron, Dissolved	ND		mg/l	0.050	0.012	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.0010	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Magnesium, Dissolved	ND		mg/l	0.070	0.022	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Manganese, Dissolved	ND		mg/l	0.0005	0.0003	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Nickel, Dissolved	0.0002	J	mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Potassium, Dissolved	0.111	J	mg/l	0.150	0.019	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.005	0.001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Silver, Dissolved	0.0005		mg/l	0.0004	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Sodium, Dissolved	0.024	J	mg/l	0.200	0.016	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.0050	0.0006	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM
Zinc, Dissolved	0.0057	J	mg/l	0.0100	0.0026	1	06/01/15 12:35	06/01/15 14:05	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Westborough Lab for sample(s): 09 Batch: WG789685-1										
Arsenic, TCLP	ND		mg/l	1.0	0.02	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Barium, TCLP	0.05	J	mg/l	0.50	0.03	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Cadmium, TCLP	ND		mg/l	0.10	0.01	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Chromium, TCLP	ND		mg/l	0.20	0.02	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Lead, TCLP	ND		mg/l	0.50	0.02	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Selenium, TCLP	ND		mg/l	0.50	0.03	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH
Silver, TCLP	ND		mg/l	0.10	0.02	1	06/01/15 14:28	06/01/15 15:43	1,6010C	JH

Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 05/30/15 23:58

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-08 Batch: WG789724-1										
Aluminum, Total	ND		mg/l	0.010	0.002	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Antimony, Total	0.0004	J	mg/l	0.0020	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Arsenic, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Barium, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Beryllium, Total	ND		mg/l	0.0005	0.0002	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Calcium, Total	ND		mg/l	0.100	0.032	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Chromium, Total	ND		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Copper, Total	ND		mg/l	0.0010	0.0003	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Iron, Total	ND		mg/l	0.050	0.012	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Lead, Total	ND		mg/l	0.0010	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Magnesium, Total	ND		mg/l	0.070	0.022	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Manganese, Total	ND		mg/l	0.0005	0.0003	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Nickel, Total	0.0002	J	mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Potassium, Total	0.035	J	mg/l	0.150	0.019	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Selenium, Total	ND		mg/l	0.005	0.001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Silver, Total	ND		mg/l	0.0004	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Sodium, Total	ND		mg/l	0.200	0.016	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Thallium, Total	ND		mg/l	0.0005	0.0001	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Vanadium, Total	ND		mg/l	0.0050	0.0006	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM
Zinc, Total	ND		mg/l	0.0100	0.0026	1	06/01/15 11:26	06/01/15 13:19	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG789474-2 SRM Lot Number: D088-540								
Mercury, Total	105		-		72-128	-		
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789545-2								
Mercury, Total	107		-		80-120	-		
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789546-2								
Mercury, Dissolved	90		-		70-130	-		
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 Batch: WG789551-2								
Mercury, TCLP	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG789581-2 SRM Lot Number: D088-540					
Aluminum, Total	80	-	48-151	-	
Antimony, Total	187	-	1-208	-	
Arsenic, Total	96	-	79-121	-	
Barium, Total	88	-	83-117	-	
Beryllium, Total	91	-	83-117	-	
Cadmium, Total	93	-	83-117	-	
Calcium, Total	89	-	81-119	-	
Chromium, Total	92	-	80-120	-	
Cobalt, Total	92	-	84-115	-	
Copper, Total	98	-	81-118	-	
Iron, Total	89	-	45-155	-	
Lead, Total	82	-	81-117	-	
Magnesium, Total	88	-	76-124	-	
Manganese, Total	88	-	81-118	-	
Nickel, Total	93	-	83-117	-	
Potassium, Total	89	-	71-129	-	
Selenium, Total	97	-	78-122	-	
Silver, Total	93	-	75-124	-	
Sodium, Total	90	-	72-127	-	
Thallium, Total	90	-	80-120	-	
Vanadium, Total	92	-	78-122	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG789581-2 SRM Lot Number: D088-540					
Zinc, Total	92	-	82-118	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789582-2					
Aluminum, Dissolved	108	-	80-120	-	
Antimony, Dissolved	103	-	80-120	-	
Arsenic, Dissolved	93	-	80-120	-	
Barium, Dissolved	98	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	116	-	80-120	-	
Calcium, Dissolved	99	-	80-120	-	
Chromium, Dissolved	98	-	80-120	-	
Cobalt, Dissolved	95	-	80-120	-	
Copper, Dissolved	86	-	80-120	-	
Iron, Dissolved	96	-	80-120	-	
Lead, Dissolved	98	-	80-120	-	
Magnesium, Dissolved	114	-	80-120	-	
Manganese, Dissolved	93	-	80-120	-	
Nickel, Dissolved	91	-	80-120	-	
Potassium, Dissolved	110	-	80-120	-	
Selenium, Dissolved	97	-	80-120	-	
Silver, Dissolved	90	-	80-120	-	
Sodium, Dissolved	111	-	80-120	-	
Thallium, Dissolved	92	-	80-120	-	
Vanadium, Dissolved	100	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789582-2					
Zinc, Dissolved	93	-	80-120	-	
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 Batch: WG789685-2					
Arsenic, TCLP	108	-	75-125	-	20
Barium, TCLP	100	-	75-125	-	20
Cadmium, TCLP	118	-	75-125	-	20
Chromium, TCLP	95	-	75-125	-	20
Lead, TCLP	100	-	75-125	-	20
Selenium, TCLP	108	-	75-125	-	20
Silver, TCLP	98	-	75-125	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789724-2					
Aluminum, Total	101	-	80-120	-	
Antimony, Total	96	-	80-120	-	
Arsenic, Total	95	-	80-120	-	
Barium, Total	92	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	109	-	80-120	-	
Calcium, Total	95	-	80-120	-	
Chromium, Total	104	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	93	-	80-120	-	
Iron, Total	94	-	80-120	-	
Lead, Total	98	-	80-120	-	
Magnesium, Total	106	-	80-120	-	
Manganese, Total	93	-	80-120	-	
Nickel, Total	95	-	80-120	-	
Potassium, Total	105	-	80-120	-	
Selenium, Total	107	-	80-120	-	
Silver, Total	86	-	80-120	-	
Sodium, Total	98	-	80-120	-	
Thallium, Total	92	-	80-120	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 Batch: WG789724-2					
Zinc, Total	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789474-4 QC Sample: L1511932-01 Client ID: EB07_10-12												
Mercury, Total	ND	0.19	0.24	**126**	Q	-	-		80-120	-		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789545-4 QC Sample: L1511932-07 Client ID: MW11_053015												
Mercury, Total	ND	0.005	0.00488	98		-	-		75-125	-		20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789546-4 QC Sample: L1511932-07 Client ID: MW11_053015												
Mercury, Dissolved	ND	0.005	0.00499	100		-	-		75-125	-		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 QC Batch ID: WG789551-4 QC Sample: L1511932-09 Client ID: DRUM_053015												
Mercury, TCLP	ND	0.025	0.0262	105		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789581-4 QC Sample: L1511932-01 Client ID: EB07_10-12										
Aluminum, Total	7100	200	7400	**150**	Q	-	-	75-125	-	20
Antimony, Total	ND	49.9	40	80		-	-	75-125	-	20
Arsenic, Total	1.1	12	11	83		-	-	75-125	-	20
Barium, Total	53.	200	210	79		-	-	75-125	-	20
Beryllium, Total	0.31J	4.99	4.2	84		-	-	75-125	-	20
Cadmium, Total	ND	5.09	4.0	78		-	-	75-125	-	20
Calcium, Total	1300	998	2000	**70**	Q	-	-	75-125	-	20
Chromium, Total	18.	20	32	**70**	Q	-	-	75-125	-	20
Cobalt, Total	6.6	49.9	45	77		-	-	75-125	-	20
Copper, Total	16.	25	35	76		-	-	75-125	-	20
Iron, Total	15000	99.8	14000	**0**	Q	-	-	75-125	-	20
Lead, Total	ND	50.9	39	76		-	-	75-125	-	20
Magnesium, Total	2400	998	3100	**70**	Q	-	-	75-125	-	20
Manganese, Total	370	49.9	380	**20**	Q	-	-	75-125	-	20
Nickel, Total	15.	49.9	51	**72**	Q	-	-	75-125	-	20
Potassium, Total	1300	998	2100	80		-	-	75-125	-	20
Selenium, Total	ND	12	9.9	83		-	-	75-125	-	20
Silver, Total	ND	30	25	83		-	-	75-125	-	20
Sodium, Total	270	998	1100	83		-	-	75-125	-	20
Thallium, Total	ND	12	7.9	**66**	Q	-	-	75-125	-	20
Vanadium, Total	24.	49.9	63	78		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789581-4 QC Sample: L1511932-01 Client ID: EB07_10-12										
Zinc, Total	34.	49.9	70	**72**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789582-4 QC Sample: L1511932-07 Client ID: MW11_053015										
Aluminum, Dissolved	0.042	2	1.88	92		-	-	75-125	-	20
Antimony, Dissolved	0.0016J	0.5	0.4908	98		-	-	75-125	-	20
Arsenic, Dissolved	0.0005J	0.12	0.1158	96		-	-	75-125	-	20
Barium, Dissolved	0.1042	2	1.960	93		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.0463	93		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.0533	104		-	-	75-125	-	20
Calcium, Dissolved	69.3	10	63.6	**0**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.0041	0.2	0.1702	83		-	-	75-125	-	20
Cobalt, Dissolved	0.0004J	0.5	0.4692	94		-	-	75-125	-	20
Copper, Dissolved	0.0017	0.25	0.2295	91		-	-	75-125	-	20
Iron, Dissolved	0.058	1	0.811	75		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.4991	98		-	-	75-125	-	20
Magnesium, Dissolved	26.2	10	34.0	78		-	-	75-125	-	20
Manganese, Dissolved	0.0669	0.5	0.5084	88		-	-	75-125	-	20
Nickel, Dissolved	0.0075	0.5	0.4526	89		-	-	75-125	-	20
Potassium, Dissolved	4.49	10	16.6	121		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.137	114		-	-	75-125	-	20
Silver, Dissolved	0.0002J	0.05	0.0291	**58**	Q	-	-	75-125	-	20
Sodium, Dissolved	62.8	10	61.3	**0**	Q	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1121	93		-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4808	96		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789582-4 QC Sample: L1511932-07 Client ID: MW11_053015									
Zinc, Dissolved	0.0079J	0.5	0.4756	95	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 QC Batch ID: WG789685-4 QC Sample: L1511932-09 Client ID: DRUM_053015									
Arsenic, TCLP	ND	1.2	1.3	108	-	-	75-125	-	20
Barium, TCLP	0.73	20	21	101	-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.61	120	-	-	75-125	-	20
Chromium, TCLP	0.08J	2	2.0	100	-	-	75-125	-	20
Lead, TCLP	0.03J	5.1	5.2	102	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.4	117	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.51	102	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789724-4 QC Sample: L1511932-07 Client ID: MW11_053015										
Aluminum, Total	1.02	2	3.13	106		-	-	75-125	-	20
Antimony, Total	0.0015J	0.5	0.5020	100		-	-	75-125	-	20
Arsenic, Total	0.0010	0.12	0.1054	87		-	-	75-125	-	20
Barium, Total	0.1258	2	1.988	93		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.0476	95		-	-	75-125	-	20
Cadmium, Total	0.0001J	0.051	0.0597	117		-	-	75-125	-	20
Calcium, Total	67.0	10	73.1	**61**	Q	-	-	75-125	-	20
Chromium, Total	0.0627	0.2	0.2314	84		-	-	75-125	-	20
Cobalt, Total	0.0021	0.5	0.4826	96		-	-	75-125	-	20
Copper, Total	0.0073	0.25	0.2481	96		-	-	75-125	-	20
Iron, Total	3.09	1	2.99	**0**	Q	-	-	75-125	-	20
Lead, Total	0.0022	0.51	0.5188	101		-	-	75-125	-	20
Magnesium, Total	29.3	10	30.6	**13**	Q	-	-	75-125	-	20
Manganese, Total	0.1606	0.5	0.6072	89		-	-	75-125	-	20
Nickel, Total	0.0392	0.5	0.5101	94		-	-	75-125	-	20
Potassium, Total	5.04	10	15.1	101		-	-	75-125	-	20
Selenium, Total	0.001J	0.12	0.102	85		-	-	75-125	-	20
Silver, Total	0.0001J	0.05	0.0335	**67**	Q	-	-	75-125	-	20
Sodium, Total	51.6	10	58.0	**64**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1106	92		-	-	75-125	-	20
Vanadium, Total	0.0033J	0.5	0.5385	108		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789724-4 QC Sample: L1511932-07 Client ID: MW11_053015									
Zinc, Total	0.1238	0.5	0.5362	82	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789474-3 QC Sample: L1511932-01 Client ID: EB07_10-12						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789545-3 QC Sample: L1511932-07 Client ID: MW11_053015						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789546-3 QC Sample: L1511932-07 Client ID: MW11_053015						
Mercury, Dissolved	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 QC Batch ID: WG789551-3 QC Sample: L1511932-09 Client ID: DRUM_053015						
Mercury, TCLP	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789581-3 QC Sample: L1511932-01 Client ID: EB07_10-12					
Aluminum, Total	7100	7100	mg/kg	0	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	1.1	1.1	mg/kg	0	20
Barium, Total	53.	53	mg/kg	0	20
Beryllium, Total	0.31J	0.32J	mg/kg	NC	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	1300	1300	mg/kg	0	20
Chromium, Total	18.	17	mg/kg	6	20
Cobalt, Total	6.6	6.8	mg/kg	3	20
Copper, Total	16.	15	mg/kg	6	20
Iron, Total	15000	14000	mg/kg	7	20
Lead, Total	ND	ND	mg/kg	NC	20
Magnesium, Total	2400	2400	mg/kg	0	20
Manganese, Total	370	380	mg/kg	3	20
Nickel, Total	15.	14	mg/kg	7	20
Potassium, Total	1300	1300	mg/kg	0	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	270	270	mg/kg	0	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789581-3 QC Sample: L1511932-01 Client ID: EB07_10-12					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	24.	24	mg/kg	0	20
Zinc, Total	34.	33	mg/kg	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789582-3 QC Sample: L1511932-07 Client ID: MW11_053015					
Aluminum, Dissolved	0.042	0.051	mg/l	19	20
Antimony, Dissolved	0.0016J	0.0010J	mg/l	NC	20
Arsenic, Dissolved	0.0005J	0.0003J	mg/l	NC	20
Barium, Dissolved	0.1042	0.1037	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Chromium, Dissolved	0.0041	0.0042	mg/l	2	20
Cobalt, Dissolved	0.0004J	0.0003J	mg/l	NC	20
Copper, Dissolved	0.0017	0.0009J	mg/l	NC	20
Iron, Dissolved	0.058	0.062	mg/l	6	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	26.2	25.1	mg/l	4	20
Manganese, Dissolved	0.0669	0.0682	mg/l	2	20
Nickel, Dissolved	0.0075	0.0074	mg/l	1	20
Potassium, Dissolved	4.49	4.52	mg/l	1	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	0.0002J	0.0001J	mg/l	NC	20
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	0.0007J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789582-3 QC Sample: L1511932-07 Client ID: MW11_053015					
Zinc, Dissolved	0.0079J	0.0070J	mg/l	NC	20
Dissolved Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789582-3 QC Sample: L1511932-07 Client ID: MW11_053015					
Calcium, Dissolved	69.3	69.9	mg/l	1	20
Sodium, Dissolved	62.8	65.4	mg/l	4	20
TCLP Metals by EPA 1311 - Westborough Lab Associated sample(s): 09 QC Batch ID: WG789685-3 QC Sample: L1511932-09 Client ID: DRUM_053015					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	0.73	0.70	mg/l	4	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	0.08J	0.08J	mg/l	NC	20
Lead, TCLP	0.03J	0.02J	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789724-3 QC Sample: L1511932-07 Client ID: MW11_053015					
Aluminum, Total	1.02	1.07	mg/l	5	20
Calcium, Total	67.0	68.4	mg/l	2	20
Sodium, Total	51.6	57.4	mg/l	11	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG789724-3 QC Sample: L1511932-07 Client ID: MW11_053015						
Antimony, Total	0.0015J	0.0010J	mg/l	NC		20
Arsenic, Total	0.0010	0.0007	mg/l	**25**	Q	20
Barium, Total	0.1258	0.1190	mg/l	6		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	0.0001J	0.0001J	mg/l	NC		20
Chromium, Total	0.0627	0.0373	mg/l	**51**	Q	20
Cobalt, Total	0.0021	0.0014	mg/l	**43**	Q	20
Copper, Total	0.0073	0.0066	mg/l	10		20
Iron, Total	3.09	2.31	mg/l	**29**	Q	20
Lead, Total	0.0022	0.0017	mg/l	**24**	Q	20
Magnesium, Total	29.3	27.5	mg/l	6		20
Manganese, Total	0.1606	0.1395	mg/l	14		20
Nickel, Total	0.0392	0.0227	mg/l	**53**	Q	20
Potassium, Total	5.04	4.98	mg/l	1		20
Selenium, Total	0.001J	0.001J	mg/l	NC		20
Silver, Total	0.0001J	0.0003J	mg/l	NC		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.0033J	0.0023J	mg/l	NC		20
Zinc, Total	0.1238	0.1178	mg/l	5		20

INORGANICS
&
MISCELLANEOUS

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-01
Client ID: EB07_10-12
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 14:40
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	17	J	mg/kg	1.0	1.0	1	-	06/01/15 12:32	107,-	
Solids, Total	77.4		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	ND		mg/kg	1.2	0.28	1	05/31/15 16:50	06/01/15 10:00	1,9010C/9012B	ML
Chromium, Hexavalent	0.58	J	mg/kg	1.0	0.21	1	05/31/15 13:15	06/01/15 10:50	1,7196A	JT

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-02
Client ID: EB09_4.5-5.5
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 13:25
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	23	J	mg/kg	1.1	1.1	1	-	06/01/15 13:12	107,-	
Solids, Total	70.4		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	0.62	J	mg/kg	1.3	0.31	1	05/31/15 16:50	06/01/15 10:01	1,9010C/9012B	ML
Chromium, Hexavalent	0.96	J	mg/kg	1.1	0.23	1	05/31/15 13:15	06/01/15 10:51	1,7196A	JT

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-03
Client ID: EB10_1-2
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 10:35
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	16	J	mg/kg	0.89	0.89	1	-	06/01/15 13:16	107,-	
Solids, Total	89.8		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	ND		mg/kg	1.1	0.25	1	05/31/15 16:50	06/01/15 10:02	1,9010C/9012B	ML
Chromium, Hexavalent	0.31	J	mg/kg	0.89	0.18	1	05/31/15 13:15	06/01/15 10:52	1,7196A	JT

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-04
Client ID: EB12_7-9
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 12:40
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	32	J	mg/kg	0.95	0.95	1	-	06/01/15 13:20	107,-	
Solids, Total	84.3		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	0.75	J	mg/kg	1.1	0.26	1	05/31/15 16:50	06/01/15 10:03	1,9010C/9012B	ML
Chromium, Hexavalent	0.33	J	mg/kg	0.95	0.19	1	05/31/15 13:15	06/01/15 10:53	1,7196A	JT

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-05
Client ID: EB13_7-9
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 12:00
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	17	J	mg/kg	0.89	0.89	1	-	06/01/15 13:24	107,-	
Solids, Total	89.5		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	ND		mg/kg	1.0	0.24	1	05/31/15 16:50	06/01/15 10:05	1,9010C/9012B	ML
Chromium, Hexavalent	0.30	J	mg/kg	0.89	0.18	1	05/31/15 13:15	06/01/15 10:54	1,7196A	JT

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

SAMPLE RESULTS

Lab ID: L1511932-06
Client ID: DUP01_053015
Sample Location: 130 ST. FELIX STREET, BROOKLYN
Matrix: Soil

Date Collected: 05/30/15 00:00
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chromium, Trivalent	24	J	mg/kg	1.1	1.1	1	-	06/01/15 13:27	107,-	
Solids, Total	74.9		%	0.100	NA	1	-	05/30/15 22:37	30,2540G	MR
Cyanide, Total	ND		mg/kg	1.3	0.30	1	05/31/15 16:50	06/01/15 10:06	1,9010C/9012B	ML
Chromium, Hexavalent	0.53	J	mg/kg	1.1	0.21	1	05/31/15 13:15	06/01/15 10:56	1,7196A	JT

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932

Project Number: 170366001 **Report Date:** 06/01/15

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG789475-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	05/31/15 13:15	06/01/15 10:48	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG789504-1										
Cyanide, Total	ND		mg/kg	0.97	0.23	1	05/31/15 16:50	06/01/15 09:52	1,9010C/9012B	ML

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG789475-2								
Chromium, Hexavalent	84		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG789504-2 WG789504-3								
Cyanide, Total	114		108		80-120	3		35

Matrix Spike Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789475-5 QC Sample: L1511932-05 Client ID: EB13_7-9												
Chromium, Hexavalent	0.30J	1110	1000	90		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789504-4 WG789504-5 QC Sample: L1511932-04 Client ID: EB12_7-9												
Cyanide, Total	0.75J	12	13	100		12	97		65-135	8		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789435-1 QC Sample: L1511932-01 Client ID: EB07_10-12						
Solids, Total	77.4	77.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG789475-4 QC Sample: L1511932-05 Client ID: EB13_7-9						
Chromium, Hexavalent	0.30J	0.38J	mg/kg	NC		20

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 05/30/2015 21:57

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511932-01A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-01B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-01C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-01D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1511932-01E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1511932-02A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-02B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-02C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-02D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1511932-02E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511932-03A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-03B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-03C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-03D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1511932-03E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1511932-04A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-04B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-04C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-04D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1511932-04E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1511932-05A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-05B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-05C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-05D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
Report Date: 06/01/15

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511932-05E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1511932-06A	Vial MeOH preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-06B	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-06C	Vial water preserved	A	N/A	3.9	Y	Absent	NYTCL-8260HLW(14)
L1511932-06D	Plastic 2oz unpreserved for TS	A	N/A	3.9	Y	Absent	TS(7)
L1511932-06E	Glass 500ml/16oz unpreserved	A	N/A	3.9	Y	Absent	BE-TI(180),NYTCL-8270(14),TCN-9010(14),AS-TI(180),BA-TI(180),AG-TI(180),HERB-APA(14),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),TRICR-CALC(30),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),HEXCR-7196(30),K-TI(180),NA-TI(180)
L1511932-07A	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-07B	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-07C	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-07D	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1511932-07E	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1511932-07F	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1511932-07G	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name: 130 ST. FELIX STREET
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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511932-07H	Plastic 500ml HNO3 preserved	B	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1511932-07I	Glass 500ml/16oz unpreserved	B	7	3.2	Y	Absent	-
L1511932-07X	Plastic 120ml HNO3 preserved spl	B	<2	3.2	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1511932-08A	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-08B	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-08C	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1511932-08D	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1511932-08E	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1511932-08F	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1511932-08G	Amber 1000ml unpreserved	B	7	3.2	Y	Absent	NYTCL-8082-1200ML(7)
L1511932-08H	Plastic 500ml HNO3 preserved	B	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1511932-08I	Glass 500ml/16oz unpreserved	B	7	3.2	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511932
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Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511932-08X	Plastic 120ml HNO3 preserved spl	B	<2	3.2	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1511932-09A	Glass 250ml/8oz unpreserved	B	N/A	3.2	Y	Absent	-
L1511932-09X	Plastic 120ml HNO3 preserved spl	B	<2	3.2	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1511932-09X9	Tumble Vessel	B	N/A	3.2	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name:	130 ST. FELIX STREET	**Lab Number:**	L1511932
Project Number:	170366001	**Report Date:**	06/01/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

Report Format: DU Report with 'J' Qualifiers

Project Name:	130 ST. FELIX STREET	**Lab Number:**	L1511932
Project Number:	170366001	**Report Date:**	06/01/15

Data Qualifiers

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511932
Project Number: 170366001 **Report Date:** 06/01/15

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

107 Alpha Analytical - In-house calculation method.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5-30-15

ALPHA Job #: E15119 32

Client Information
Client: LANGAN
Address: 360 W 31ST ST, 8TH FL
NY NY 10001
Phone: 212-479-5400
Fax: 212-479-5444
Email: jgood@langan.com

Project Information
Project Name: 130 ST. FELIX STREET
Project Location: 130 ST. FELIX STREET BROOKLYN NY
Project # 170366001
(Use Project name as Project #) ☐
Project Manager: JOSEPH GOOD
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date:
Rush (only if pre approved) ☒ # of Days: 24 HR

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☒ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO # 170366001

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	~~TCL VOC~~ AS 5/30/15	~~PART 375~~ FULL	~~TOTAL SOLIDS~~ FULL PART 375	~~HEM, TOPALKA~~	TCL VOC/SVOC TAL Metals/PCB	TCLP METALS				Sample Specific Comments	Total Bottle
11932-01	EB07_10-12	5/30/15	14:40	SOIL	AT	X										5
02	EB09_4.5-5.5		13:25			X										5
03	EB10_1-2		10:35			X										5
04	EB12_7-9		12:40			X										5
05	EB13_7-9		12:00			X										5
06	DUP01_053015	5/30/15		SOIL	AT	X										5
07	MW11_053015	5/30/15	16:35	WATER	AT					X						9
08	GWDUP01_053015	5/30/15			AT					X					Lab Filtered	9
09	DRUM-053015	5/30/15	15:50	SOIL	AT						X				Lab Filtered	1
					Container Type											
					Preservative											

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/30/15 16:50	[signature] ALL	5/30/15 16:50
[signature] ALL	5/30/15 20:49	[signature]	5-30-15 20:49

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1511934
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Joe Good
Phone:	(212) 479-5448
Project Name:	130 ST. FELIX STREET
Project Number:	170366001
Report Date:	06/02/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1511934-01	SV01	SOIL_VAPOR	BROOKLYN, NY	05/30/15 11:30	05/30/15
L1511934-02	SV02	SOIL_VAPOR	BROOKLYN, NY	05/30/15 11:51	05/30/15
L1511934-03	SV03	SOIL_VAPOR	BROOKLYN, NY	05/30/15 14:31	05/30/15
L1511934-04	AMB_053015	AIR	BROOKLYN, NY	05/30/15 13:58	05/30/15

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934
Project Number: 170366001 **Report Date:** 06/02/15

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

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

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	130 ST. FELIX STREET	**Lab Number:**	L1511934
Project Number:	170366001	**Report Date:**	06/02/15

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on May 29, 2015. The canister certification results are provided as an addendum.

Samples L1511934-01 and -02 results for Acetone should be considered estimated due to co-elution with a non-target peak.

Sample L1511934-01 The presence of 2,2,4-Triemthylpentane could not be determined in this sample due to a non-target compound interfering with the identification and quantification of this compound.

Samples L1511934-01 and -02 elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative Date: 06/02/15

AIR

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-01 D
Client ID: SV01
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/01/15 22:23
Analyst: MB

Date Collected: 05/30/15 11:30
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.500	--	ND	2.47	--		2.5
Chloromethane	ND	0.500	--	ND	1.03	--		2.5
Freon-114	ND	0.500	--	ND	3.49	--		2.5
Vinyl chloride	ND	0.500	--	ND	1.28	--		2.5
1,3-Butadiene	0.708	0.500	--	1.57	1.11	--		2.5
Bromomethane	ND	0.500	--	ND	1.94	--		2.5
Chloroethane	ND	0.500	--	ND	1.32	--		2.5
Ethanol	14.6	6.25	--	27.5	11.8	--		2.5
Vinyl bromide	ND	0.500	--	ND	2.19	--		2.5
Acetone	34.5	2.50	--	82.0	5.94	--		2.5
Trichlorofluoromethane	ND	0.500	--	ND	2.81	--		2.5
Isopropanol	3.42	1.25	--	8.41	3.07	--		2.5
1,1-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
Tertiary butyl Alcohol	8.00	1.25	--	24.3	3.79	--		2.5
Methylene chloride	ND	1.25	--	ND	4.34	--		2.5
3-Chloropropene	ND	0.500	--	ND	1.57	--		2.5
Carbon disulfide	142	0.500	--	442	1.56	--		2.5
Freon-113	ND	0.500	--	ND	3.83	--		2.5
trans-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
1,1-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
Methyl tert butyl ether	ND	0.500	--	ND	1.80	--		2.5
2-Butanone	3.98	1.25	--	11.7	3.69	--		2.5
cis-1,2-Dichloroethene	ND	0.500	--	ND	1.98	--		2.5
Ethyl Acetate	ND	1.25	--	ND	4.50	--		2.5

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-01 D
Client ID: SV01
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 11:30
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.500	--	ND	2.44	--		2.5
Tetrahydrofuran	ND	1.25	--	ND	3.69	--		2.5
1,2-Dichloroethane	ND	0.500	--	ND	2.02	--		2.5
n-Hexane	3.95	0.500	--	13.9	1.76	--		2.5
1,1,1-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Benzene	1.36	0.500	--	4.34	1.60	--		2.5
Carbon tetrachloride	ND	0.500	--	ND	3.15	--		2.5
Cyclohexane	4.00	0.500	--	13.8	1.72	--		2.5
1,2-Dichloropropane	ND	0.500	--	ND	2.31	--		2.5
Bromodichloromethane	ND	0.500	--	ND	3.35	--		2.5
1,4-Dioxane	ND	0.500	--	ND	1.80	--		2.5
Trichloroethene	ND	0.500	--	ND	2.69	--		2.5
2,2,4-Trimethylpentane	ND	0.500	--	ND	2.34	--		2.5
Heptane	2.14	0.500	--	8.77	2.05	--		2.5
cis-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
4-Methyl-2-pentanone	1.38	1.25	--	5.66	5.12	--		2.5
trans-1,3-Dichloropropene	ND	0.500	--	ND	2.27	--		2.5
1,1,2-Trichloroethane	ND	0.500	--	ND	2.73	--		2.5
Toluene	11.5	0.500	--	43.3	1.88	--		2.5
2-Hexanone	ND	0.500	--	ND	2.05	--		2.5
Dibromochloromethane	ND	0.500	--	ND	4.26	--		2.5
1,2-Dibromoethane	ND	0.500	--	ND	3.84	--		2.5
Tetrachloroethene	ND	0.500	--	ND	3.39	--		2.5
Chlorobenzene	ND	0.500	--	ND	2.30	--		2.5
Ethylbenzene	3.95	0.500	--	17.2	2.17	--		2.5
p/m-Xylene	18.8	1.00	--	81.7	4.34	--		2.5
Bromoform	ND	0.500	--	ND	5.17	--		2.5
Styrene	9.05	0.500	--	38.5	2.13	--		2.5

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-01 D
Client ID: SV01
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 11:30
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.500	--	ND	3.43	--		2.5
o-Xylene	8.62	0.500	--	37.4	2.17	--		2.5
4-Ethyltoluene	3.26	0.500	--	16.0	2.46	--		2.5
1,3,5-Trimethylbenzene	4.89	0.500	--	24.0	2.46	--		2.5
1,2,4-Trimethylbenzene	17.6	0.500	--	86.5	2.46	--		2.5
Benzyl chloride	ND	0.500	--	ND	2.59	--		2.5
1,3-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,4-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2-Dichlorobenzene	ND	0.500	--	ND	3.01	--		2.5
1,2,4-Trichlorobenzene	ND	0.500	--	ND	3.71	--		2.5
Hexachlorobutadiene	ND	0.500	--	ND	5.33	--		2.5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-02 D
Client ID: SV02
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/01/15 22:55
Analyst: MB

Date Collected: 05/30/15 11:51
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	0.667	--	ND	3.30	--		3.333
Chloromethane	ND	0.667	--	ND	1.38	--		3.333
Freon-114	ND	0.667	--	ND	4.66	--		3.333
Vinyl chloride	ND	0.667	--	ND	1.71	--		3.333
1,3-Butadiene	1.08	0.667	--	2.39	1.48	--		3.333
Bromomethane	ND	0.667	--	ND	2.59	--		3.333
Chloroethane	ND	0.667	--	ND	1.76	--		3.333
Ethanol	36.9	8.33	--	69.5	15.7	--		3.333
Vinyl bromide	ND	0.667	--	ND	2.92	--		3.333
Acetone	64.1	3.33	--	152	7.91	--		3.333
Trichlorofluoromethane	ND	0.667	--	ND	3.75	--		3.333
Isopropanol	5.72	1.67	--	14.1	4.10	--		3.333
1,1-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
Tertiary butyl Alcohol	8.42	1.67	--	25.5	5.06	--		3.333
Methylene chloride	ND	1.67	--	ND	5.80	--		3.333
3-Chloropropene	ND	0.667	--	ND	2.09	--		3.333
Carbon disulfide	218	0.667	--	679	2.08	--		3.333
Freon-113	ND	0.667	--	ND	5.11	--		3.333
trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
1,1-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
Methyl tert butyl ether	ND	0.667	--	ND	2.40	--		3.333
2-Butanone	12.8	1.67	--	37.8	4.93	--		3.333
cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--		3.333
Ethyl Acetate	ND	1.67	--	ND	6.02	--		3.333

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-02 D
Client ID: SV02
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 11:51
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.667	--	ND	3.26	--		3.333
Tetrahydrofuran	6.84	1.67	--	20.2	4.93	--		3.333
1,2-Dichloroethane	ND	0.667	--	ND	2.70	--		3.333
n-Hexane	14.0	0.667	--	49.3	2.35	--		3.333
1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Benzene	1.47	0.667	--	4.70	2.13	--		3.333
Carbon tetrachloride	ND	0.667	--	ND	4.20	--		3.333
Cyclohexane	2.25	0.667	--	7.74	2.30	--		3.333
1,2-Dichloropropane	ND	0.667	--	ND	3.08	--		3.333
Bromodichloromethane	ND	0.667	--	ND	4.47	--		3.333
1,4-Dioxane	ND	0.667	--	ND	2.40	--		3.333
Trichloroethene	ND	0.667	--	ND	3.58	--		3.333
2,2,4-Trimethylpentane	2.10	0.667	--	9.81	3.12	--		3.333
Heptane	5.48	0.667	--	22.5	2.73	--		3.333
cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
4-Methyl-2-pentanone	3.77	1.67	--	15.5	6.84	--		3.333
trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--		3.333
1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--		3.333
Toluene	11.1	0.667	--	41.8	2.51	--		3.333
2-Hexanone	ND	0.667	--	ND	2.73	--		3.333
Dibromochloromethane	ND	0.667	--	ND	5.68	--		3.333
1,2-Dibromoethane	ND	0.667	--	ND	5.13	--		3.333
Tetrachloroethene	1.16	0.667	--	7.87	4.52	--		3.333
Chlorobenzene	ND	0.667	--	ND	3.07	--		3.333
Ethylbenzene	4.85	0.667	--	21.1	2.90	--		3.333
p/m-Xylene	21.4	1.33	--	93.0	5.78	--		3.333
Bromoform	ND	0.667	--	ND	6.90	--		3.333
Styrene	8.30	0.667	--	35.3	2.84	--		3.333

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-02 D
Client ID: SV02
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 11:51
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--		3.333
o-Xylene	10.1	0.667	--	43.9	2.90	--		3.333
4-Ethyltoluene	3.21	0.667	--	15.8	3.28	--		3.333
1,3,5-Trimethylbenzene	4.80	0.667	--	23.6	3.28	--		3.333
1,2,4-Trimethylbenzene	16.3	0.667	--	80.1	3.28	--		3.333
Benzyl chloride	ND	0.667	--	ND	3.45	--		3.333
1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--		3.333
1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--		3.333
Hexachlorobutadiene	ND	0.667	--	ND	7.11	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	85		60-140

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-03
Client ID: SV03
Sample Location: BROOKLYN, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 06/01/15 23:30
Analyst: MB

Date Collected: 05/30/15 14:31
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.340	0.200	--	1.68	0.989	--		1
Chloromethane	0.570	0.200	--	1.18	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	87.3	2.50	--	164	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	57.7	1.00	--	137	2.38	--		1
Trichlorofluoromethane	0.276	0.200	--	1.55	1.12	--		1
Isopropanol	11.5	0.500	--	28.3	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	19.5	0.500	--	59.1	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	4.92	0.200	--	15.3	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.24	0.500	--	6.61	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-03
Client ID: SV03
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 14:31
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	0.209	0.200	--	1.02	0.977	--		1
Tetrahydrofuran	0.601	0.500	--	1.77	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.843	0.200	--	2.97	0.705	--		1
1,1,1-Trichloroethane	0.239	0.200	--	1.30	1.09	--		1
Benzene	0.721	0.200	--	2.30	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.590	0.200	--	2.03	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	1.58	0.200	--	7.38	0.934	--		1
Heptane	1.06	0.200	--	4.34	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	7.22	0.200	--	27.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	0.448	0.200	--	3.04	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.75	0.200	--	11.9	0.869	--		1
p/m-Xylene	12.2	0.400	--	53.0	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	5.74	0.200	--	24.4	0.852	--		1

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-03
Client ID: SV03
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 14:31
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	6.02	0.200	--	26.1	0.869	--		1
4-Ethyltoluene	2.39	0.200	--	11.7	0.983	--		1
1,3,5-Trimethylbenzene	3.26	0.200	--	16.0	0.983	--		1
1,2,4-Trimethylbenzene	13.1	0.200	--	64.4	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.765	0.200	--	4.60	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	81		60-140

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-04
Client ID: AMB_053015
Sample Location: BROOKLYN, NY
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/01/15 16:20
Analyst: MB

Date Collected: 05/30/15 13:58
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.212	0.200	--	1.05	0.989	--		1
Chloromethane	0.636	0.200	--	1.31	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	6.84	2.50	--	12.9	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.70	1.00	--	13.5	2.38	--		1
Trichlorofluoromethane	0.434	0.200	--	2.44	1.12	--		1
Isopropanol	0.804	0.500	--	1.98	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-04
Client ID: AMB_053015
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 13:58
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.237	0.200	--	0.835	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	1.19	0.200	--	5.56	0.934	--		1
Heptane	0.257	0.200	--	1.05	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.09	0.200	--	4.11	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.648	0.400	--	2.81	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1

Project Name: 130 ST. FELIX STREET
Project Number: 170366001
Lab Number: L1511934
Report Date: 06/02/15

SAMPLE RESULTS

Lab ID: L1511934-04
Client ID: AMB_053015
Sample Location: BROOKLYN, NY
Date Collected: 05/30/15 13:58
Date Received: 05/30/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.244	0.200	--	1.06	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.276	0.200	--	1.36	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	82		60-140
chlorobenzene-d5	68		60-140

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934

Project Number: 170366001 **Report Date:** 06/02/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/01/15 13:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG789684-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934

Project Number: 170366001 **Report Date:** 06/02/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/01/15 13:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG789684-4								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934

Project Number: 170366001 **Report Date:** 06/02/15

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 06/01/15 13:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-04 Batch: WG789684-4								
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG789684-3								
Chlorodifluoromethane	88		-		70-130	-		
Propylene	93		-		70-130	-		
Dichlorodifluoromethane	76		-		70-130	-		
Chloromethane	94		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	104		-		70-130	-		
Methanol	79		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	98		-		70-130	-		
Butane	89		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	92		-		70-130	-		
Ethyl Alcohol	90		-		70-130	-		
Dichlorofluoromethane	90		-		70-130	-		
Vinyl bromide	103		-		70-130	-		
Acrolein	96		-		70-130	-		
Acetone	100		-		70-130	-		
Acetonitrile	87		-		70-130	-		
Trichlorofluoromethane	104		-		70-130	-		
iso-Propyl Alcohol	101		-		70-130	-		
Acrylonitrile	89		-		70-130	-		
Pentane	90		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG789684-3								
Ethyl ether	83		-		70-130	-		
1,1-Dichloroethene	93		-		70-130	-		
tert-Butyl Alcohol	97		-		70-130	-		
Methylene chloride	97		-		70-130	-		
3-Chloropropene	102		-		70-130	-		
Carbon disulfide	99		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		-		70-130	-		
trans-1,2-Dichloroethene	90		-		70-130	-		
1,1-Dichloroethane	99		-		70-130	-		
Methyl tert butyl ether	100		-		70-130	-		
Vinyl acetate	**174**	Q	-		70-130	-		
2-Butanone	95		-		70-130	-		
cis-1,2-Dichloroethene	110		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	88		-		70-130	-		
2,2-Dichloropropane	96		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
n-Hexane	87		-		70-130	-		
Isopropyl Ether	82		-		70-130	-		
Ethyl-Tert-Butyl-Ether	86		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG789684-3								
1,1,1-Trichloroethane	96		-		70-130	-		
1,1-Dichloropropene	90		-		70-130	-		
Benzene	92		-		70-130	-		
Carbon tetrachloride	97		-		70-130	-		
Cyclohexane	86		-		70-130	-		
Tertiary-Amyl Methyl Ether	86		-		70-130	-		
Dibromomethane	86		-		70-130	-		
1,2-Dichloropropane	92		-		70-130	-		
Bromodichloromethane	95		-		70-130	-		
1,4-Dioxane	90		-		70-130	-		
Trichloroethene	100		-		70-130	-		
2,2,4-Trimethylpentane	89		-		70-130	-		
Methyl Methacrylate	86		-		70-130	-		
Heptane	84		-		70-130	-		
cis-1,3-Dichloropropene	102		-		70-130	-		
4-Methyl-2-pentanone	86		-		70-130	-		
trans-1,3-Dichloropropene	86		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Toluene	100		-		70-130	-		
1,3-Dichloropropane	93		-		70-130	-		
2-Hexanone	100		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG789684-3								
Dibromochloromethane	104		-		70-130	-		
1,2-Dibromoethane	107		-		70-130	-		
Butyl Acetate	87		-		70-130	-		
Octane	92		-		70-130	-		
Tetrachloroethene	108		-		70-130	-		
1,1,1,2-Tetrachloroethane	100		-		70-130	-		
Chlorobenzene	108		-		70-130	-		
Ethylbenzene	104		-		70-130	-		
p/m-Xylene	104		-		70-130	-		
Bromoform	108		-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	104		-		70-130	-		
o-Xylene	105		-		70-130	-		
1,2,3-Trichloropropane	98		-		70-130	-		
Nonane (C9)	91		-		70-130	-		
Isopropylbenzene	103		-		70-130	-		
Bromobenzene	97		-		70-130	-		
o-Chlorotoluene	102		-		70-130	-		
n-Propylbenzene	104		-		70-130	-		
p-Chlorotoluene	101		-		70-130	-		
4-Ethyltoluene	101		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 Batch: WG789684-3								
1,3,5-Trimethylbenzene	105		-		70-130	-		
tert-Butylbenzene	104		-		70-130	-		
1,2,4-Trimethylbenzene	110		-		70-130	-		
Decane (C10)	99		-		70-130	-		
Benzyl chloride	112		-		70-130	-		
1,3-Dichlorobenzene	117		-		70-130	-		
1,4-Dichlorobenzene	117		-		70-130	-		
sec-Butylbenzene	103		-		70-130	-		
p-Isopropyltoluene	98		-		70-130	-		
1,2-Dichlorobenzene	114		-		70-130	-		
n-Butylbenzene	107		-		70-130	-		
1,2-Dibromo-3-chloropropane	104		-		70-130	-		
Undecane	102		-		70-130	-		
Dodecane (C12)	118		-		70-130	-		
1,2,4-Trichlorobenzene	127		-		70-130	-		
Naphthalene	118		-		70-130	-		
1,2,3-Trichlorobenzene	119		-		70-130	-		
Hexachlorobutadiene	115		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG789684-5 QC Sample: L1511634-01 Client ID: DUP Sample						
Dichlorodifluoromethane	ND	ND	ppbV	NC		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	33.8	32.3	ppbV	5		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	37.4	35.6	ppbV	5		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
iso-Propyl Alcohol	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG789684-5 QC Sample: L1511634-01 Client ID: DUP Sample					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
2-Butanone	3.33	3.28	ppbV	2	25
cis-1,2-Dichloroethene	5.08	4.92	ppbV	3	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Chloroform	4.32	4.22	ppbV	2	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	ND	ND	ppbV	NC	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	5.97	5.77	ppbV	3	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
Heptane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG789684-5 QC Sample: L1511634-01 Client ID: DUP Sample					
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.743	0.800	ppbV	7	25
2-Hexanone	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	208	213	ppbV	2	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	1.47	1.55	ppbV	5	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-04 QC Batch ID: WG789684-5 QC Sample: L1511634-01 Client ID: DUP Sample					
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: 130 ST. FELIX STREET

Lab Number: L1511934

Project Number: 170366001

Report Date: 06/02/15

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1511934-01	SV01	0150	#30 SV	05/29/15	204492		-	-	-	Pass	17.8	17.9	1
L1511934-01	SV01	2042	2.7L Can	05/29/15	204492	L1510674-01	Pass	-29.8	-5.4	-	-	-	-
L1511934-02	SV02	0002	#16 AMB	05/29/15	204492		-	-	-	Pass	17.9	21.8	20
L1511934-02	SV02	518	2.7L Can	05/29/15	204492	L1510674-01	Pass	-29.9	-7.8	-	-	-	-
L1511934-03	SV03	0471	#30 SV	05/29/15	204492		-	-	-	Pass	18	18.1	1
L1511934-03	SV03	2015	2.7L Can	05/29/15	204492	L1510674-01	Pass	-30.0	-12.1	-	-	-	-
L1511934-04	AMB_053015	0675	#16 AMB	05/29/15	204492		-	-	-	Pass	17.9	18.5	3
L1511934-04	AMB_053015	1993	6.0L Can	05/29/15	204492	L1509822-01	Pass	-29.6	-20.7	-	-	-	-

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID:	L1509822-01	Date Collected:	05/07/15 11:00
Client ID:	CAN 594 SHELF 48	Date Received:	05/07/15
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	05/09/15 17:01		
Analyst:	MR		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01
Client ID: CAN 594 SHELF 48
Sample Location:

Date Collected: 05/07/15 11:00
Date Received: 05/07/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01
Client ID: CAN 594 SHELF 48
Sample Location:

Date Collected: 05/07/15 11:00
Date Received: 05/07/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01
Client ID: CAN 594 SHELF 48
Sample Location:

Date Collected: 05/07/15 11:00
Date Received: 05/07/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01

Client ID: CAN 594 SHELF 48

Sample Location:

Date Collected: 05/07/15 11:00

Date Received: 05/07/15

Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	91		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	89		60-140

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID:	L1509822-01	Date Collected:	05/07/15 11:00
Client ID:	CAN 594 SHELF 48	Date Received:	05/07/15
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	05/09/15 17:01		
Analyst:	MR		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01
Client ID: CAN 594 SHELF 48
Sample Location:

Date Collected: 05/07/15 11:00
Date Received: 05/07/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1509822

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1509822-01
Client ID: CAN 594 SHELF 48
Sample Location:

Date Collected: 05/07/15 11:00
Date Received: 05/07/15
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	91		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	88		60-140

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID:	L1510674-01	Date Collected:	05/14/15 18:00
Client ID:	CAN 177 SHELF 1	Date Received:	05/15/15
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	05/15/15 15:27		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01
Client ID: CAN 177 SHELF 1
Sample Location:

Date Collected: 05/14/15 18:00
Date Received: 05/15/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01
Client ID: CAN 177 SHELF 1
Sample Location:

Date Collected: 05/14/15 18:00
Date Received: 05/15/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01
Client ID: CAN 177 SHELF 1
Sample Location:

Date Collected: 05/14/15 18:00
Date Received: 05/15/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01

Client ID: CAN 177 SHELF 1

Sample Location:

Date Collected: 05/14/15 18:00

Date Received: 05/15/15

Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	86		60-140
chlorobenzene-d5	94		60-140

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID:	L1510674-01	Date Collected:	05/14/15 18:00
Client ID:	CAN 177 SHELF 1	Date Received:	05/15/15
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	05/15/15 15:27		
Analyst:	RY		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01
Client ID: CAN 177 SHELF 1
Sample Location:

Date Collected: 05/14/15 18:00
Date Received: 05/15/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name:

Project Number: CANISTER QC BAT

Lab Number: L1510674

Report Date: 06/02/15

Air Canister Certification Results

Lab ID: L1510674-01
Client ID: CAN 177 SHELF 1
Sample Location:

Date Collected: 05/14/15 18:00
Date Received: 05/15/15
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	96		60-140

Project Name: 130 ST. FELIX STREET
Project Number: 170366001

Lab Number: L1511934
Report Date: 06/02/15

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1511934-01A	Canister - 2.7 Liter	N/A	NA		Y	Absent	TO15-LL(30)
L1511934-02A	Canister - 2.7 Liter	N/A	NA		Y	Absent	TO15-LL(30)
L1511934-03A	Canister - 2.7 Liter	N/A	NA		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	130 ST. FELIX STREET	**Lab Number:**	L1511934
Project Number:	170366001	**Report Date:**	06/02/15

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

Report Format: Data Usability Report

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934

Project Number: 170366001 **Report Date:** 06/02/15

Data Qualifiers

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: 130 ST. FELIX STREET **Lab Number:** L1511934
Project Number: 170366001 **Report Date:** 06/02/15

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 16, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/1/15

ALPHA Job #: L1511934

Client Information

Client: Langan Engineering
Address: 360 West 31st
New York, NY 10001
Phone: 212-479-5400
Fax: 212-479-5444
Email: atashi@langan.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 130 St. Felix Street
Project Location: Brooklyn, NY
Project #: 170366001
Project Manager: Joe Good
ALPHA Quote #:

Turn-Around Time

☐ Standard ☒ RUSH (only confirmed if pre-approved!)

Date Due: Time: 24-hr

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker: (Default based on Regulatory Criteria Indicated)
Other Formats:
☒ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☒ Same as Client info PO #: 170366001

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
11934.01	SV01	5/30/15	9:28	11:30	-30.42	-4.89	SV	AT	2.7L	2042	0150		X						
02	SV02		9:51	11:51	-30.44	-7.74	SV	AT	2.7L	518	0002		X						
03	SV03		12:31	14:31	-30.32	-11.85	SV	AT	2.7L	2015	0471		X						
	~~AMB-053015~~		~~12:31~~	~~14:31~~	~~-30.32~~	~~-11.85~~													
04	AMB_053015		9:58	13:58	-30.14	-20.23	AIR	AT	6L	1993	0675		X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible]	5/30/15 16:50	[illegible] AAL	5/30/15 16:40
[illegible] AAL	5/30/15 20:35	[illegible] ADC	6/1/15 9:28
[illegible] ADC	6-1-15 10:24	[illegible]	6/1/15 10:26

Form No: 101-02 (19-Jun-09)

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site
130 Saint Felix Street,
Brooklyn, New York 11217

NOVA PROJECT NUMBER:

20-1614

DATED:

January 14, 2020

PREPARED FOR:

LANGAN

300 Kimball Drive, 4th Floor
Parsippany, New Jersey 07054-2172

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions

56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

January 14, 2020

Brandon Reiner
Senior Project Engineer
LANGAN
300 Kimball Drive, 4th Floor
Parsippany, New Jersey 07054-2172
P: 973.560.4900 | E: BReiner@langan.com

Re: Geophysical Engineering Survey (GES) Report
Commercial Site
130 Saint Felix Street,
Brooklyn, New York 11217

Dear Mr. Reiner,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 130 Saint Felix Street, Brooklyn, New York 11217 (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks and other substructures as well as to clear nad mark proposed boring areas on January 10th, 2020.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a Radio Detection RD7100 Electromagnetic utility locator.

A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the

subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

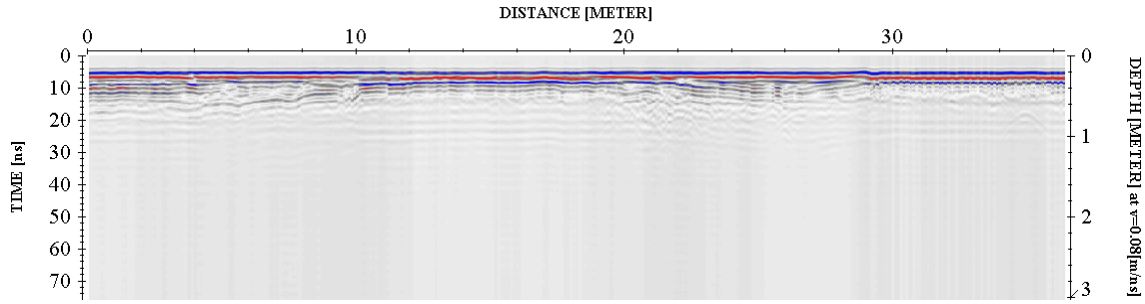
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

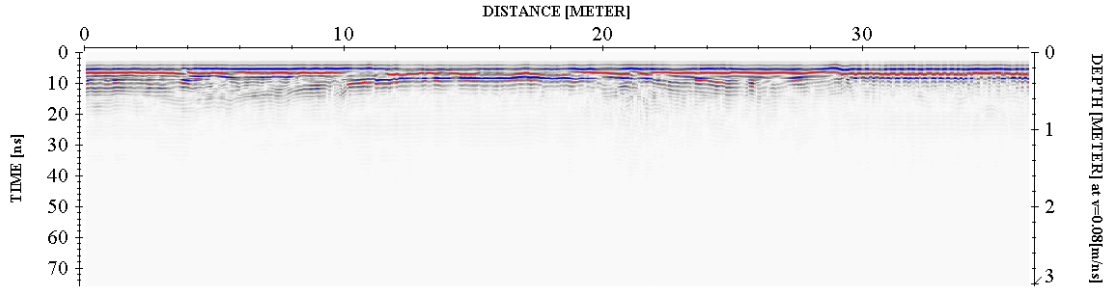
DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

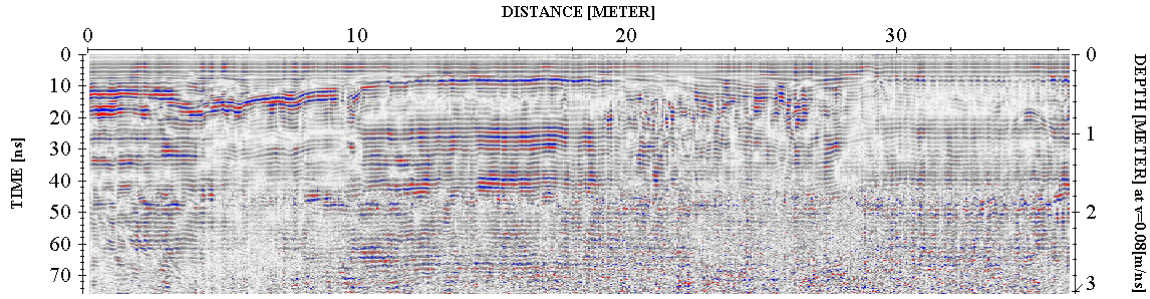
Step 1. Import Raw RAMAC data to standard processing format



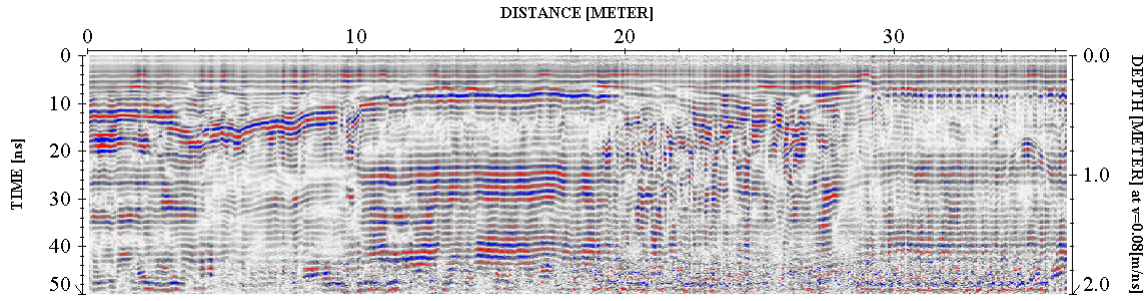
Step 2. Remove instrument noise *(dewow)*



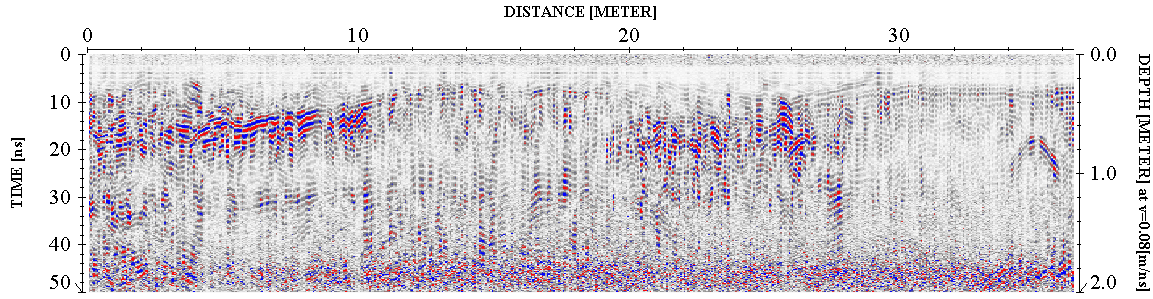
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Overcast

Temperature: 35° F

Surface: Asphalt, Concrete

Limitations: The geophysical noise level at the site was high due to having accumulated excessive fill materials on the property which appears to contained former structures with a basement.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface utilities (such as drainage and conduit) were identified within the survey area. Shown in the survey plan.
- Two large geophysical anomalies resembling a potential buried foundation were identified during the GES. Shown in the Survey Plan.
- A suspected fill port was identified in the sidewalk of the survey area and traced entering an area of potential buried foundation. Shown in the survey plan. The GES could not identify the continuation of the above-mentioned anomaly / suspected fill port.
- All detected subsurface anomalies were marked in the onsite mark out.
- All cleared boring locations were marked in the onsite mark out.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.

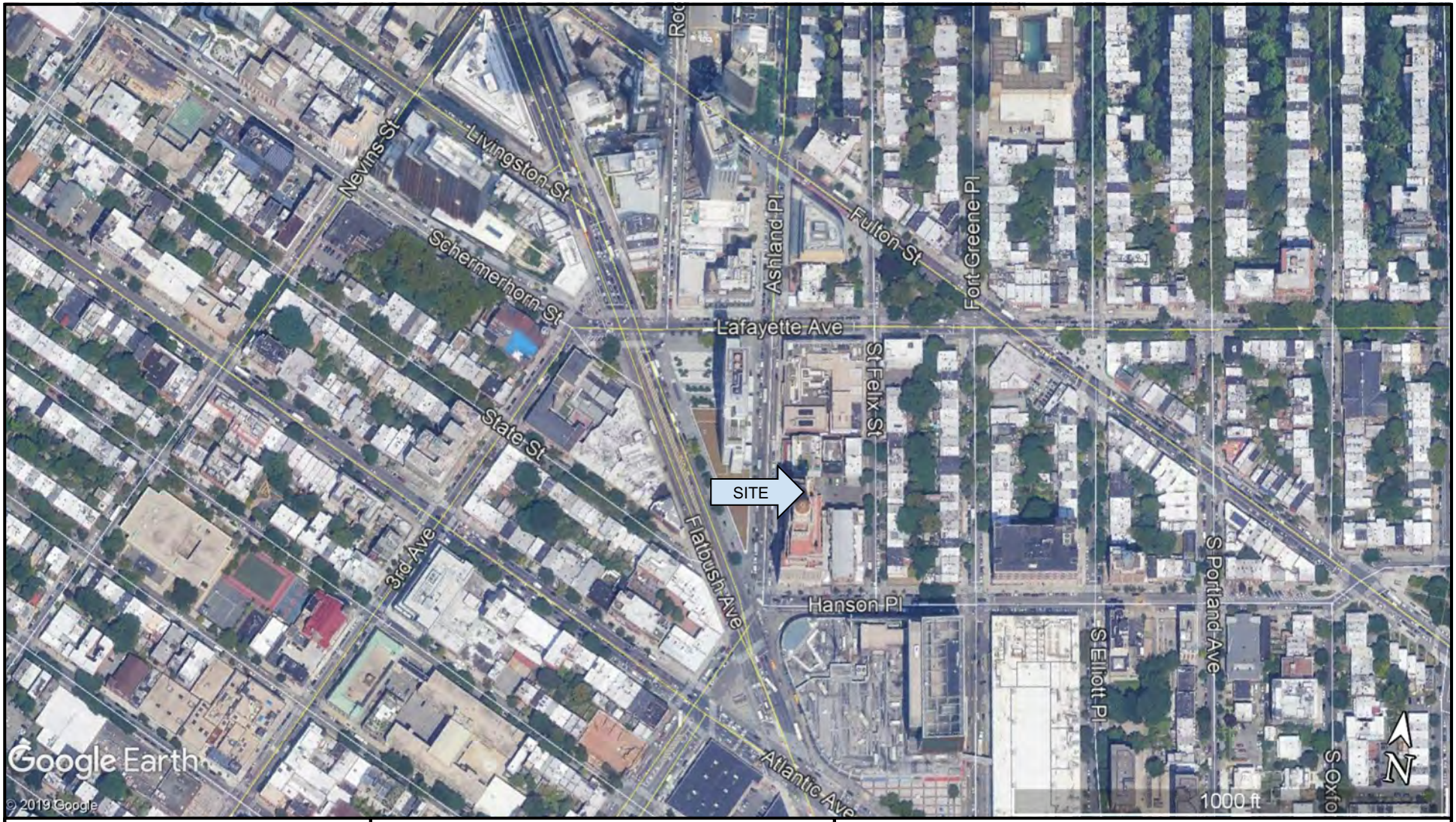
Project Engineer

Attachments:

Location Map

Survey Plan

Geophysical Images



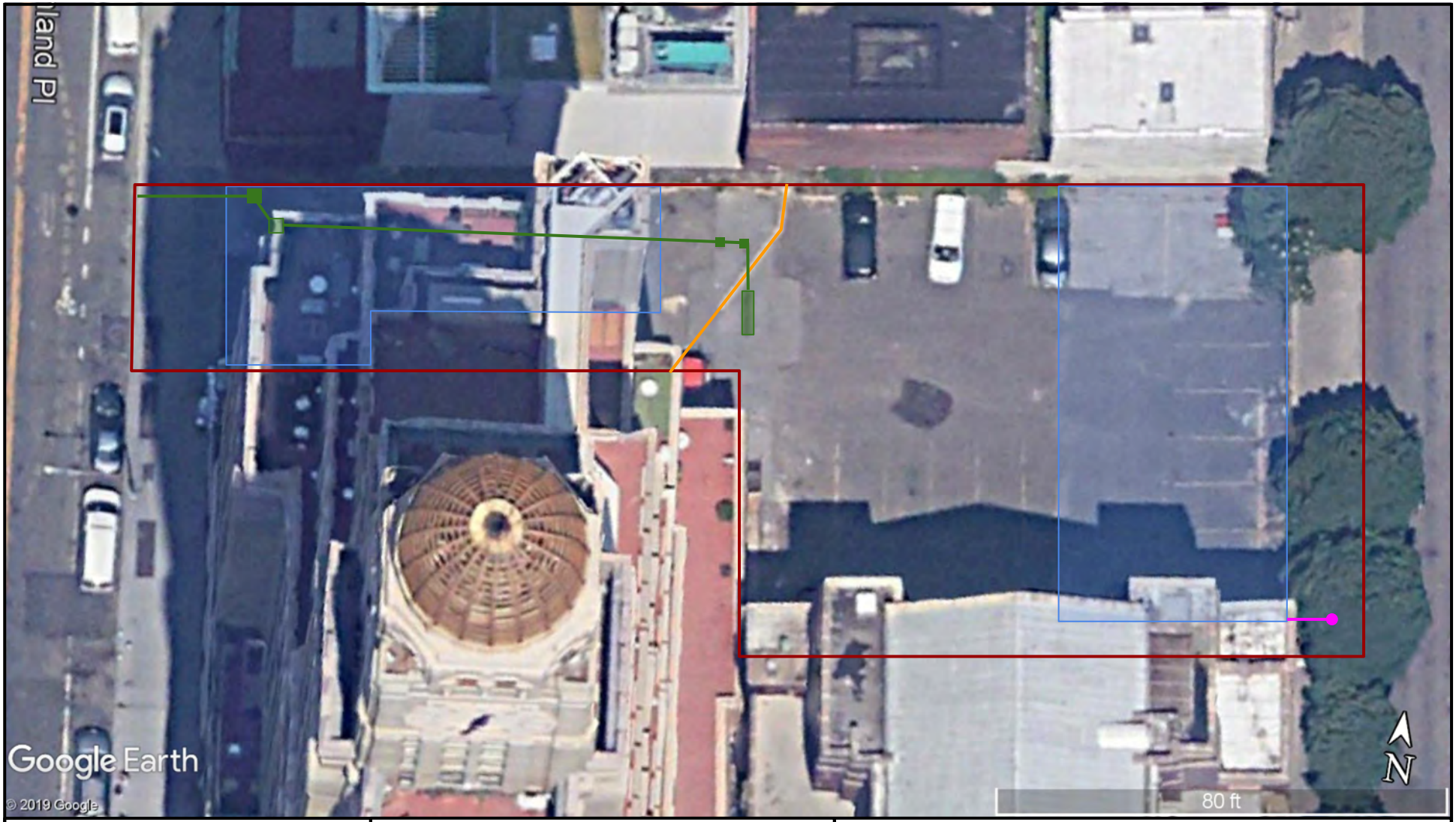
NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

Location Map

SITE:	**Commercial Site** 130 Saint Felix Street, Brooklyn, New York 11217
CLIENT:	Langan
DATE:	January 10th, 2020
AUTH:	Chris Steinley

LEGEND



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SURVEY PLAN

SITE:	**Commercial Site** 130 Saint Felix Street, Brooklyn, New York 11217
CLIENT:	Langan
DATE:	January 10th, 2020
AUTH:	Chris Steinley

LEGEND

- Survey Area
- Conduit
- Cleanout
- Drain
- Former Foundation
- Fill Port

GEOPHYSICAL IMAGES

Commercial Site
130 Saint Felix Street,
Brooklyn, New York 11217
January 10th, 2020

GEOPHYSICAL IMAGES

Commercial Site
130 Saint Felix Street,
Brooklyn, New York 11217
January 10th, 2020

GEOPHYSICAL IMAGES

Commercial Site

130 Saint Felix Street,
Brooklyn, New York 11217
January 10th, 2020

GEOPHYSICAL IMAGES

Commercial Site
130 Saint Felix Street,
Brooklyn, New York 11217
January 10th, 2020

APPENDIX D

COMMUNITY AIR MONITORING PROGRAM

COMMUNITY AIR MONITORING PROGRAM

Monitoring During Site Operations

Atmospheric air monitoring results are used to provide data to determine when exclusion zones need to be established and when certain levels of personal protective equipment are required. For all instruments there are Site-specific action level criteria which are used in making field health and safety determinations. Other data, such as the visible presence of contamination or the steady state nature of air contaminant concentration, are also used in making field health and safety decisions.

During site work involving disturbance of impacted soils, real time air monitoring will be conducted for VOCs and dust at the upwind and downwind perimeters of the work zone, which will be established at a points on the Site where the general public or site employees may be present (for example, in the vicinity of St. Felix Street, in the vicinity of Ashland Place, and/or in the vicinity of the adjacent buildings). A photoionization detector (PID) will be used to monitor concentrations of VOCs at personnel breathing-zone height. Dust monitoring will be accomplished using real-time monitoring equipment capable of measuring PM-10 (e.g., DustTrak). Air monitoring will be the responsibility of the HSO or designee. Air monitoring will be conducted approximately every 30 minutes during ground intrusive activities associated with the completion of soil borings, collection of soil samples, and installation of permanent monitoring wells and temporary soil vapor sampling points. All manufacturers' instructions for instrumentation and calibration will be available onsite. If VOC or particulate concentrations are observed in exceedance of CAMP action levels, work will stop and corrective measures will be taken.

Langan will conduct periodic monitoring for VOCs during non-intrusive work such as the collection of groundwater samples. Periodic monitoring may include obtaining measurements upon arrival at a location, when opening a monitoring well cap, when bailing/purging a well, and upon departure from a location.

Subcontractors' air monitoring plans must be equal or more stringent as the Langan plan.

Air monitoring operations, referred to as the Community Air Monitoring Program (CAMP), will comply with NYSDEC DER-10 Appendix 1A and Appendix 1B, included below. Additional

special requirements for work within 20 feet of potentially exposed individuals or structures are also included below.

CAMP data summary tables will be provided to NYSDEC and NYSDOH on a weekly basis at a minimum, and NYSDEC and NYSDOH will be notified immediately (within 24 hours or one business day) of any CAMP exceedances and corrective actions taken, independently of the Daily Field Reports discussed below.

An air monitoring calibration log is provided below.

Volatile Organic Compounds

Monitoring with a PID, such as a MiniRAE 3000 (10.6v) or equivalent will occur during investigation activities at the upwind and downwind perimeters of the work zone, which will be established at a points on the Site where the general public or site employees may be present (for example, in the vicinity of St. Felix Street, in the vicinity of Ashland Place, and/or in the vicinity of the adjacent buildings). Colormetric Indicator Tubes for benzene may be used as backup for the PID, if measurements remain above background monitor every 2 hours. The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (odors, visible gases, appearance of drill cuttings, etc.) since the last measurement. Instrument action levels for monitored gases are provided below.

Dust

As historic urban fill is present in the subsurface, the soil at the site is potentially impacted with common historic fill contaminants including SVOCs, PCBs, pesticides, and metals. During invasive procedures which have the potential for creating airborne dust, such as drilling of dry soils, a real time airborne dust monitor capable of measuring PM-10 such as a Dust-Trak will be used to monitor for air particulates at the upwind and downwind perimeters of the work zone, which will be established at a points on the Site where the general public or site employees may be present (for example, in the vicinity of St. Felix Street, in the vicinity of Ashland Place, and/or in the vicinity of the adjacent buildings). The HSO will monitor the employee breathing zone at least every 30 minutes, or whenever there is any indication that concentrations may have changed (appearance of visible dust) since the last measurement. If dust levels are observed to be greater than 0.100 mg/m3 or visible dust is observed for longer than 15 minutes

or if the site PPE is upgraded to Level C, the HSO will begin monitoring the site perimeter at a location downwind of the AOC every 30 minutes in addition to the employee breathing zone. Instrument action levels for dust monitoring are provided below.

Determination of Background Levels

Background (BKD) levels for VOCs and dust will be established at the start of each day prior to intrusive activities within the work zone. BKD levels will also be measured periodically throughout the day. A notation of BKD levels will be referenced in the daily monitoring log. BKD levels are a function of prevailing conditions. BKD levels will be taken in an appropriate upwind location as determined by the Langan Health and Safety Officer.

Special Requirements

The Special Requirements CAMP will be implemented when remedial investigation activities are performed within 20 feet of occupied structures or potentially exposed populations. The requirements are as follows:

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 $\mu g/m^3$, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 $\mu g/m^3$ or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. This requirement, however, will not be applicable to the Site.

Monitoring Equipment Calibration and Maintenance

Instrument calibration shall be documented and included in a dedicated safety and health logbook or on separate calibration pages of the field book. All instruments shall be calibrated

before and after each shift. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

All instruments shall be operated in accordance with the manufacturers' specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on site by the HSO for reference.

COMMUNITY HEALTH AND SAFETY CONSIDERATIONS

The potential impact of site work activities on the surrounding community (residential and business) is of concern. Precautions taken to reduce or prevent contamination from leaving the work areas include the following:

- All appropriate equipment will be decontaminated before leaving the Site;
- Work zone air monitoring will be conducted by Langan;
- Dust and vapor suppression techniques will be used as necessary;
- Downwind air monitoring for volatile organic compounds and dust will be done at the areas of concern perimeter every 30 minutes whenever site personnel are required to wear Level C respiratory protection as per the HASP in Appendix D of the RIWP; and,
- Work will be suspended at any time that contaminants are found to be migrating off-site at a concentration that exceeds the most stringent compound-specific action level as per the HASP in Appendix D of the RIWP.

INSTRUMENTATION ACTION LEVELS
130 Saint Felix Street
Brooklyn, New York

Instrument	Action Level	Level of Protection / Action Required
PID	Background to 5 ppm	Level D/No respirator; no further action required
	> 5 ppm for > 5 minutes	1. Temporarily discontinue all activities and evaluate potential causes of the excessive readings. If these levels persist and cannot be mitigated (i.e., by slowing drilling or excavation activities), contact HSO to review conditions and determine source and appropriate response action. 2. If PID readings remain above 5 ppm, temporarily discontinue work and upgrade to Level C protection. 3. If sustained PID readings fall below 1 ppm, downgrading to Level D protection may be permitted
	> 5 ppm but < 150 ppm for > 5 minutes	Level C/ 1. Discontinue all work; all workers shall move to an area upwind of the jobsite. 2. Evaluate potential causes of the excessive readings and allow work area to vent until VOC concentrations fall below 5 ppm. 3. Level C protection will continue to be used until PID readings fall below 1 ppm.
	> 30 ppm (steady state condition) within AOC zone	Stop Work / Suppress Emissions / Evacuate and re-evaluate.
	> 150 ppm	Evacuate the work area
Total Dust Aerosol Monitor	> 0.100 mg/m³ above BKD (steady state condition) at perimeter of AOC zone for 15-minutes or visible dust.	Stop Work / Implement dust control / Continue dust monitoring if dust levels are less than 150 mg/m3
	< 0.150 mg/m3 above BKD (following dust suppression measures)	Stop Work / implement dust control, continue work once levels are <150 mg/m3
	>5 mg/m³	Level C

Notes:

1. 1 ppm level based on OSHA Permissible Exposure Limit (PEL) for benzene.
2. 5 ppm level based on OSHA Short Term Exposure Limit (STEL) maximum exposure for vinyl chloride for any 15 minute period.
3. 150 ppm level based on NIOSH Immediately Dangerous to Life and Health (IDLH) for tetrachloroethylene

PROJECT:_____

DATE:_____

CALIBRATION LOG

Time	Inst Type	Inst #	Media	Initial Reading	Span #	Calib Reading	Performed By:

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50° C (14 to 122° F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures

When work areas are within 20 feet of potentially exposed populations or occupied structures, the continuous monitoring locations for VOCs and particulates must reflect the nearest potentially exposed individuals and the location of ventilation system intakes for nearby structures. The use of engineering controls such as vapor/dust barriers, temporary negative-pressure enclosures, or special ventilation devices should be considered to prevent exposures related to the work activities and to control dust and odors. Consideration should be given to implementing the planned activities when potentially exposed populations are at a minimum, such as during weekends or evening hours in non-residential settings.

- If total VOC concentrations opposite the walls of occupied structures or next to intake vents exceed 1 ppm, monitoring should occur within the occupied structure(s). Background readings in the occupied spaces must be taken prior to commencement of the planned work. Any unusual background readings should be discussed with NYSDOH prior to commencement of the work.

- If total particulate concentrations opposite the walls of occupied structures or next to intake vents exceed 150 mcg/m^3, work activities should be suspended until controls are implemented and are successful in reducing the total particulate concentration to 150 mcg/m^3 or less at the monitoring point.

- Depending upon the nature of contamination and remedial activities, other parameters (e.g., explosivity, oxygen, hydrogen sulfide, carbon monoxide) may also need to be monitored. Response levels and actions should be pre-determined, as necessary, for each site.

Special Requirements for Indoor Work With Co-Located Residences or Facilities

Unless a self-contained, negative-pressure enclosure with proper emission controls will encompass the work area, all individuals not directly involved with the planned work must be absent from the room in which the work will occur. Monitoring requirements shall be as stated above under "Special Requirements for Work Within 20 Feet of Potentially Exposed Individuals or Structures" except that in this instance "nearby/occupied structures" would be adjacent occupied rooms. Additionally, the location of all exhaust vents in the room and their discharge points, as well as potential vapor pathways (openings, conduits, etc.) relative to adjoining rooms, should be understood and the monitoring locations established accordingly. In these situations, it is strongly recommended that exhaust fans or other engineering controls be used to create negative air pressure within the work area during remedial activities. Additionally, it is strongly recommended that the planned work be implemented during hours (e.g. weekends or evenings) when building occupancy is at a minimum.